

ORILINK® WINTOOLS

SOFTWARE FOR

MONITORING SYSTEM

MANUAL

VERSION 10

(MOST IS VALID ALSO FOR OLDER VERSIONS)

23 413 BASIC VERSION 23 414 PROFESSIONAL VERSION

English Manual for OriLink® WinTools, Rev R10, 180409

,	WE P	ROVIDE SOLUTIONS	ORILINK®	\langle
1.	INTR	ODUCTION		6
2.	TECH	INICAL DEMANDS		6
3.	DIFF	ERENCE BETWEEN BASIC AND PROFESSIONAL VERSION		6
	3.1. 3.2.	BASIC VERSION PROFESSIONAL VERSION		6 6
4.		ALLATION		7
т.	4.1.			-
	4.1. 4.2.	WINTOOLS BASIC SOFTWARE INSTALLATION CONVERT BASIC VERSION TO PROFESSIONAL VERSION (REGISTER)		7 7
	4.3.	CHOOSE THE LANGUAGE.		8
	4.4.	ODBC ADDITIONAL INFORMATION		10
	4.5.	COM PORT SET-UP FOR IMPROVED PERFORMANCE. 4.5.1. FIFO READ-buffer in Windows NT.		11 11
		4.5.2. FIFO READ-buffer in Windows 98SE or later		11
	4.6.	INSTALLING ORILINK® WINDB MANAGER (PROFESSIONAL ONLY)		12
		4.6.1. In older versions.4.6.2. In newer versions (R10 or later)		12 12
	4.7.	4.6.2. In newer versions (R10 or later) CHECK FOR LATE UPDATES		12
5.	ORII	INK® ENGINE		13
	5.1.	UPDATE PNP ARRAY		14
	5.2.	ORILINK® NEIGHBOURHOOD		15
	5.3.	STOP ENGINE		15
	5.4. 5.5.	PROPERTIES RUN		15 17
6.		INK® NEIGHBOURHOOD		18
	6.1.	START		18
	6.2.	TECHNICAL DESCRIPTION		18
	6.3. 6.4.	NEIGHBOURHOOD MENU (R6) NEIGHBOURHOOD MENU (R7 OR LATER)		18 19
	6.5.	QUICK STATUS INFORMATION		19
	6.6.	PASSWORD PROTECTION		19
	6.7.	MPDM (23 400) 6.7.1. Optional connector		20 20
		6.7.2. Host Properties		20 20
		6.7.3. Port(n) properties.		21
		6.7.4. MPDM change address.		22
	6.8.	6.7.5. MPDM Reboot module. KEYPAD (23 401)		22 23
		6.8.1. Edit Fast Menu		23
		6.8.2. KP properties.		23
		6.8.3. KP change address.6.8.4. KP Reboot module.		25 25
	6.9.	PRINTER MODULE (23 402)		26
		6.9.1. Printer interface and database.		26
		6.9.1.1. Transactions 6.9.1.2. Users		26 27
		6.9.1.3. Job number		27
		6.9.1.4. Edit Receipt 6.9.1.5. Edit Report		28 29
		6.9.2. Tank properties		29
	c 10	6.9.3. PM change address		29 20
	6.10. 6.11.	SERIAL INTERFACE (23 403) LED DISPLAY (23 404)		30 30
	0.11.	6.11.1. LED Properties.		30
		6.11.2. LED Change address.		30
		6.11.3. LED Manage presets, only LED101. 6.11.4. LED Reboot module.		31 31
		6.11.5. REEL Host properties, only for LED101.		31 31
		6.11.6. REEL Properties, only for LED101.		31
	6.12.	CLOCK MODULE (23 405)		32

WE P		<®
6.13.	TANK CONTROL MODULE (23 408)	
	6.13.1. Valve symbol	
	6.13.2. Discrete level sensor symbol	
	6.13.3. Analogue level sensor symbol	
	6.13.4. TCM Setup menu	
	6.13.4.1. Host properties	
	6.13.5. Port[n] properties	
	6.13.6. Change address 6.13.7. Reboot	
LOA	DING ORILINK® SERVICES	
7.1.	TIME SYNCHRONISATION (CLOCK.DLL BASIC AND PROFESSIONAL)	
	7.1.1. Loading the Clock Service	
7.2.	PC AS DATABASE (WINDB.DLL ONLY PROFESSIONAL)	
	7.2.1. Loading WinDB service	
	7.2.2. Set-up a dispense point to use PC database	
7.3.	SCRIPT SERVICE (SCRIPT.DLL ONLY PROFESSIONAL) PART NUMBER 23475	
7.4.	MESSAGING SERVICE (MESSAGIN.DLL ONLY PROFESSIONAL) PART NUMBER 23481	
7.5.	DBDOCKING SERVICE (DBDOCKS.DLL ONLY PROFESSIONAL) PART NUMBER 23477	
	NG THE WINDB MANAGER SOFTWARE.	
8.1.	OBSERVE !	
8.2.	START	
8.3.	CHANGING USER PASSWORD	
	8.3.1. Chose if the main window should be sizable or not	
	8.3.2. Changing user password	
	8.3.3. Changing management password	
8.4.	8.3.4. How to disable the login form. VIEW MENU	
0.4.	8.4.1. Transaction and Transaction table	
	8.4.1. Operator details	
	8.4.2. <i>Tank Stock update history</i>	
	8.4.4. Tank Message history	
	8.4.5. Db Docking Service transaction table	
8.5.	MANAGING MENU	
0.5.	8.5.1. WO- numbers	
	8.5.2. Operators	
	8.5.3. Tanks	
	8.5.4. Printing	
	8.5.5. Preset Codes	
	8.5.6. Suppliers	
	8.5.7. Administrator	
8.6.	REPORT MENU	
	8.6.1. Input WO-number example.	
	8.6.2. Input dates example	
	8.6.3. System reports	
	8.6.4. Totals	
	8.6.5. Periodical	
	8.6.6. Combined	
8.7.	WINDOW MENU	
8.8.	HELP MENU	
8.9.	CLOSE THE PROGRAM	
HW	FLASH TOOL (HWFLASH.EXE)	
9.1.	HOW TO CHANGE THE SYSTEM LANGUAGE (R7 OR LATER)	
9.2.	HOW TO UPDATE CHIP SOFTWARE AND/OR LANGUAGE FOR MODULES.	
9.3.	HOW TO CHANGE A FLASH CHIP FROM MODULE TYPE TO CO TYPE.	
9.4.	HOW TO UPDATE TO FLASH CHIP TECHNOLOGY (R7 OR LATER).	
	9.4.1. If the flash chip already contains module software.	
0.7	9.4.2. If the flash chip comes with only CO software (part number 23482).	
9.5.	SET MODULES TO PRODUCTION DEFAULT (R7 AND LATER)	
ERR	OR HANDLING.	

V	VE P	ROVIDE SOLUTIONS DRILINK®	$\boldsymbol{\langle}$
	10.2. 10.3. 10.4. 10.5.	ORILINK® GENERAL ERROR TOOL ORILINK® BASIC WINTOOLS ERRORS ORILINK® PROFESSIONAL VERSION ERRORS ODBC-KEY ERRORS WINDB MANAGER ERRORS. SERVICE AND OCP ERRORS	61 61 62 62 63 63
11.	ADV	ANCED FEATURES	65
	 11.2. 11.3. 11.4. 11.5. 11.6. 11.7. 11.8. 11.9. 11.10. 	MODULE PNP UPDATE PRIORITY (LARGE SYSTEMS). CHANGE LANGUAGE FOR MODULES BY A COMMAND SET MODULES TO PRODUCTION DEFAULT BY A COMMAND OLSET.EXE, COMMAND LINE TOOL. CREATING SUBMENUS IN THE ENGINE CONTROL MENU DESIGN A CUSTOM SYSTEM GRAPHIC LAYOUT (HWMON2) 11.6.1. Create a new layout file. 11.6.2. Edit a layout. 11.6.3. Modifying the layout background 11.6.4. Open a custom layout file 11.6.5. Creating a Client layout file. ORION COMMON PLATFORM (OCP) 11.7.1. Different ways of connections 11.7.2. How does it work 11.7.3. Existing OCP-drivers (040924) 11.7.4. How to install an OCP-driver ORILINK® SERVER-CLIENT SET-UP. 11.8.1. Install the software on Server 11.8.2. OriLink® Server set-up (Windows 98SE) 11.8.3. OriLink® Server set-up (Windows XP SP2) 11.8.4. OriLink® Server set-up (Windows XP SP2) 11.8.5. OriLink® Client Set-up. 11.8.6. Start Up. IMPORTING DATA TO MICROSOFT EXCEL USING MS ACCESS SCRIPT SERVICE 23475, SCRIPT.DLL (PROFESSIONAL ONLY) 11.1.1. How does it work? 11.1.2. What kind of script language is used	65 66 67 69 70 70 73 75 77 78 79 79 79 79 79 79 79 79 79 79 79 79 80 81 81 82 83 83 84 84 84 86 86 86 87
12.	USIN	11.11.3. How to write scripts G MPDM AS TCM100 (SIMPLE TANK CONTROLLER)	87 87
13.		G MPDM/TCM AS A PLC (PROGRAMMABLE LOGIC CONTROLLER)	88
	13.2.	 POSSIBLE INPUTS / OUTPUTS SUPPORTED OPERATIONS SAMPLE PLC CODED FUNCTIONS 13.3.1. Activate p40 with p4a for 60 s use r1 13.3.2. Activate p40 with p4a for 10 s, if p4b is OFF Use r1 and deactivate p40 13.3.3. Flipp-flopp for p30 13.3.4. Timed cascade coupling of Port1. 13.3.5. Start a pump p40 if the system is opened and activate p30 if it is closed 13.3.6. Start control for a system with two pumps 13.3.7. Simple analogue controller with hysteresis 13.3.8. Equip MPDM and or TCM with PLC chip software 13.3.8.1. PLC100 (a MPDM flashed with PLC200 software) 13.3.8.2. PLC200 (a TCM flashed with PLC200 software) 	88 88 88 89 89 89 89 89 89 89 90 90
14.	CYC	LIC DISPENSE MODE	91
		HOW TO GET A WARNING SIGNAL FOR FAILED DISPENSE. HOW TO GET A RECORD/REPORT OF DISPENSES.	91 92
15.	PRE-	PROGRAMMED AMOUNTS WITH A MPDM	92
	15.2.	CONNECT A MPDM TO DISPENSE PRE-PROGRAMMED AMOUNTS CONFIGURE A MPDM TO DISPENSE PRE-PROGRAMMED AMOUNTS STATUS INFORMATION	92 92 93

N	VE PROVIDE SOLUTIONS	ORILINK®	\langle
	15.4. START, STOP AND RESET FUNCTION.		93
16.	USE SOME REELS FOR PRESET (R10 ONLY)		94
17.	UPDATING THE PC COMPUTER		95
18.	PATCH THE OS TO THE LATEST VERSION		95
19.	INSTALL / UPDATE MDAC		95
20.	INSTALL / UPDATE MSJET		95
21.	SHOW HIDDEN FILES AND EXTENSIONS		96

1. Introduction

The OriLink® WinTools software is used mainly for four things,

- 1. Management and set-up of an OriLink® system using a PC computer.
- 2. Using a PC computer as database for fluids, users, transactions, job numbers, etc.
- 3. Connections to customer mainframe and DMS systems.
- 4. Customer tailored functions using scripting.

The software is modularised like the OriLink® hardware. This enables the possibility to only use functions needed and by this have software that has lowest possible complexity.

2. Technical demands

To install and use this software the following is needed.

An OriLink® system.

A PC computer with properly installed and configured Microsoft Windows 95 /98SE /NT4 /2000 / XP Professional operating system. It is recommended that the OS should be patched to the latest level.

Windows 98 /ME / XP Home are not tested or supported by us but there are no reasons for them not to work.

The PC should have a performance suitable for the used Operating system.

For the OriLink® WinTools the,

Minimum demands are Intel Pentium 2 333Mhz compatible, Windows95 and 128Mb RAM.

Recommend demand is a standard PC of today.

General rule -More things running in the PC needs higher performance.

MDAC 2.5 or later should be installed, (Microsoft Data Access Component).

MSJET should be installed, (Microsoft database drivers).

The PC must have one free 16550 compatible serial port. If it is a laptop without a serial port, use a PC-card to serial port adapter, USB to serial port adapter is not recommended. If a USB to serial port adapter must be used chose one based on the FTDI or Prolific chip set and use their reference drivers.

An OriLink® PC-interface (SIO part number 23 403)

A null-modem serial cable (part number 203 02 80), included in part number 23 403.

3. Difference between Basic and Professional version

The installation CD is the same for both versions and when you install the software both versions is installed.

3.1. Basic version

The basic version is mainly for graphic visualising of the OriLink® system on a PC. It can be used to set the time, update tank levels, make a scheduled simple text file dump of transactions and for synchronisation of the time with the PC. The basic version can be installed on several PC computers.

3.2. Professional version

To convert the basic version to professional version a registration is needed. A unique registration must be done for each PC computer.

The professional version is needed if,

The PC should be able to act as the database

The PC should be used for configuration of the OriLink® system

Connection to an economic system (DMS) should be used

Customer tailored functions should be used

Multiple receipt printing should be used.

Script service should be used.

4. Installation

Insert the OriLink® WinTools CD in the CD reader of the PC computer. Start Windows Explorer open the CD folder.

4.1. WinTools basic software installation

Go to the folder *OLWT* and double click Setup.exe or run the "OriLink WinTools Rnnn.exe". Follow the instructions on the screen.

Click Next to make a typical installation (default).

It is recommended to use *C*:*OriLink* as installation folder (default).

Restart the PC computer.

Click Start button (lower left corner of screen)

Choose Programs

Choose OriLink

Click Engine

The following window or similar will appear.



A small icon will also appear in the Info tray, lower right corner of screen, indicating that the OriLink® engine is running. Double-click it and the engine window will be shown and right-click it to show the engine menu.

Clicking the X tab in the upper right corner of the window closes the Engine window. It does not shut down the engine.

The basic software installation is now finished.

Registration

Company:

1. Registration Info

4.2. Convert BASIC version to Professional version (Register)

To convert the software from BASIC to PROFESSIONAL a registration is needed.

The direct mail and Online Registration is not supported for now.

When the OK on the OK button becomes black click on the button and the following window will

Contact Person Address: Zip: • Country: Phone Numbe Email 2. Installation informat Туре -• Brand(s): 3. How to register: C Save te C By Mail 4. Confirm Cancel 5. E-Mail addres orilink@alentec.se

Fill in the information of the company that is going to use the software and mark the choice "Save on disk".

To register run the program LICENSER.EXE in the main OriLink® folder (default is *C:\OriLink*). A window will appear.



OriLink® WinTools Setup		
Select Components Choose the components Setup will	install.	
Select the components you want to install. Client W MFC 6.2	install, and clear the c	omponents you do not want to Description OniLink® server files. These files is required to run the OniLink® server.
Space Required on C: Space Available on C: InstallShield	16328 K 117270260 K	
THE REAL PROPERTY OF THE PROPERTY OF THE REAL PROPE	< <u>B</u> acł	< <u>N</u> ext > Cancel

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OriLink® Engine Bas	ic 🗵
	ORILINK [®]
Port:	COM1: [EXE]
Packet/Bytes:	158:5636
CS/FR/TO:	0:0:0
Net Load:	5%(0)
PC-side Clients:	3 [3]
No of modules:	25
Status:	Online
Version:	1.010RC7 😚

appear.

Choose a save destination, do not change file name, click Save button.

E-mail or post the license.lic file and information about what services and/or OCP-driver you want to use to

E-mail: <u>orilink@alentec.se</u>

Post: Alentec & Orion AB OriLink® Support Team Grustagsvägen 4 SE-138 40 Älta SWEDEN

Save Licens	e File			? ×
Spara j: 🔂	Onlink	•	ک 🖻	
🗋 WinDB M	anager			
🔄 license.lic				
				N
				13
File <u>n</u> ame:	license.lic			<u>S</u> ave
<u>F</u> ileformat:	License File (*.lic)		-	Cancel

COM1: [EXE] 167:5742

0:0:0

7%(1) 4 [4]

Net Load

ORILINK®

The Licenser.exe can be run on the PC that should be used prior to the installation.

NOTE! If this is done, do not run it from a root folder (C:\, A:\,.....). Create a folder (C:\LIC, A:\LIC,....) copy Licenser.exe to this folder and run it.

You will receive a validated license file "License.dat" copy this to the OriLink® folder (default is *C*:*Orilink*). If you get the license file by E-mail the name will be "License.ooo" then rename it to "License.dat".

Restart the engine.

The engine window will now look something like this

4.3. Choose the language.

For OriLink® WinTools version 6 or later the language for the Engine, the WinDB Manager and the modules are controlled by the *Orilink.ini* and the *Lang.lan* files located in the *C:\Orilink* folder.

There are three different ways to set the system language.

Either open the Orilink.ini file in the folder you have installed OriLink® to, default is C:\Orilink, using Notepad and edit the following

[Language] PreferedLanguage=English

Or,

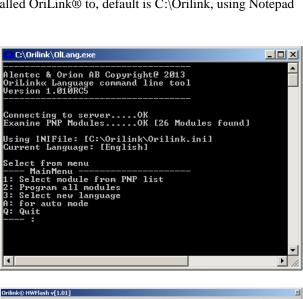
use Ollang.exe

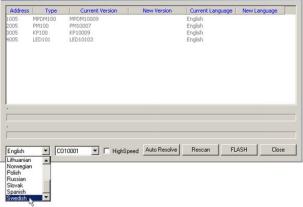
Or,

use HWFlash.exe.

and select the preferred language. See chapter "9.1 How to change the system language " or chapter "11.1. Change language for modules".

If your language does not exist and you want it added use the "OriLink® R10 Translator.xls". Use this even if you have some earlier version of OriLink®.





Setting the ODBC-key "OriLinkWinDB" (Professional only)

In the OriLink® PC environment all database interaction is done by a "standard" called ODBC which stands for "Open Data Base Connectivity". A "Key" is used for a ODBC connection.

For OriLink® the name of this "Key" is "OriLinkWinDB" and the database used is MSAccess .mdb.

When installing OriLink® WinTools version 6 or later this key is set to default by the installation.

For earlier versions or if the database is not placed at the default location (C:\Orilink) the ODBC-key has to be set manually.

OBSERVE !

For some 64-bit Windows the 32-bit ODBC management tool is not in the control panel. It can then be found as C:\Windows\SysWOW64\odbcad32.exe.

Start Control panel, Can be different between operating Chose User or System DSN and click Add ¹⁾. systems. Double-click 32-bit ODBC-sources.



Choose Microsoft Access Driver (*.mdb) click Finish.

Create New Data Source		×
	Select a driver for which you want to set up a Norme Microsoft Access Tribert ("mcb) Microsoft Access Tribert ("mcb) Microsoft Access Driver ("cb) Microsoft Base Driver ("cb) Microsoft Base Treber ("cb) Microsoft Excel Driver ("cb) Microsoft Foch ("base free free free Microsoft Foch ("base free free free Microsoft Base free free free free Microsoft Base free free free Microsoft Base free free Microsoft Base free Microsoft Base free Microsoft Base free free Microsoft Base fr	data source.
	< Back Finish	Cancel

Browse to the OriLink® folder.

Select Databa X Database N<u>a</u>m Directories OK *.mdb c:\...\administrator.alented Cancel . 🗁 c:\ Concurrents and Sel <u>H</u>elp 👝 administrator.ALEN 🛅 Cookies <u>R</u>ead Only Desktop -<u>Exclusive</u> List Files of <u>T</u>ype: Dri<u>v</u>es: Access Databases (*.m 💌 ▼ <u>N</u>etwork...

🕙 ODBC Data Source Administrator	? ×
User DSN System DSN File DSN Drivers Tracing Connection Pool	ing About
System Data Sources:	
Name Driver	Add
	Bemove
	Configure
An DDBC System data source stores information about how to the indicated data provider. A System data source is visible to on this machine, including NT services.	
OK Cancel Apply	Help

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Name the data source OriLinkWinDB and then click button Select.

ODBC Microsoft A	ccess Setup	<u>?</u> ×
Data Source <u>N</u> ame:	OriLinkWinDB	OK
Description:		Cancel
Database:		Help
<u>S</u> elect	<u>Create</u> <u>R</u> epair Compact	Advanced
- System Database -		
None		
C Database:		
	System Database	0ptions>>

Choose the desired database (.mdb) in the OriLink® catalogue, C:\Orilink and click OK.

Select Database		×
Database N <u>a</u> me OriLinkDB_02K.mdb OriLinkDB_02K.mdb	Directories: c:\orilink c:\ E C c:\ E Orilink	OK Cancel
	🛅 WinDB Manager	Help Help Read Only Exclusive
List Files of <u>Type:</u> Access Databases (*.m.	Drives:	Network

Click OK

Click OK.

ORILINK® <

DBC Microsoft Access Setup	?×	ODBC Data Source Administrator
Data Source Name: OriLinkWinDB Description: Database Database: C:\Oniink\OniLinkDB_02K.mdb Select Compact	OK Cancel Help Advanced	User DSN System DSN File DSN Drivers Tracing Connection Po System Data Sources: Name Driver OnLineAWmDB Microsoft Access Driver (".mdb)
System Database Nong Database: System Database	<u>ptions>></u>	An ODBC System data source stores information about how the indicated data provider. A System data source is visible on this machine, including NT services.

If it is done correctly a data source with the name OriLinkWinDB is shown in User or System DSN. To decide if the OriLinkWinDB should be set-up in User-DSN or System-DSN it must be decided if only one user should be able to use the software or if every user should be able to do it. This decision is very important if the OS is Windows NT/ 2000/ XP or later, because of the much higher level of security.

User-DSN Enables it to the user that is logged in when it is set-up.

System-DSN Enables it to all users, mostly used.

4.4. ODBC additional information

In systems with a high database load that is "a lot of database activities at the same time" like for intense production systems and similar, you can sometimes see things like "No available database resources". This can be fixed by increasing the number of possible simultaneous threads to the database.

manager as above and select the ODBC you want to change. Then click <configure></configure>	NDBC Data Source Administrator P X User DSN File DSN Drivers Tracing Connection Pooling About System Data Sources: Add Benove Add Benove Driver: Driver: Add Benove Configure Driver: An DDBC System data cource stores information about how to correct to the indicated data provide. A system data source is white to all uses on the machine, including information DK Cancel 2000 Help	like this will be shown, assuming that you want to change the OriLinkWin Db key. Now click the <advanced< th=""><th></th><th>? X OK Cancel Help Advanced</th></advanced<>		? X OK Cancel Help Advanced
and a window like this comes up.	Set Advanced Options	Scroll options of the bottom.		×
L	Default Authorization OK Login name: Cancel Bestword: Heb Type Value Cancel Default OK Type Value Cancel Default OK Fill MS Access; Incluid Commity ne Low Cancel OK Type Value		Delauft Authorization Login name Password Splions Type Value PageTimest Safe Targetimest Safe Targetimest UserCommaSync Yalue of Threads	OK Cancel Heb
And edit the thread value	Set Advanced Options		>, <ok>, until you have left the</ok>	e
to for example 6.	Default Authorization DK Login name: Cancel Password Default States Type Value Page Imacut 5 ReadDriv 0 Self-transations 0 HIG255 Walke of Threads 6	manager.		

4.5. Com port set-up for improved performance.

The RS-232 Com port for a PC can be based on many different controller chips (UART) but they all have some common features.

The feature that is interesting for the performance of the OriLink® system is the communication FIFO buffers, in particular the READ-buffer.

The READ-buffer works like this. When it is full the serial port controller chip (UART) sends a request to the operative system (OS) (Windows) that it has data that needs to be handled. The OS passes the data to the targeted software (OriLink® engine).

Normally today the READ-buffer is set to 14 (default for 16550 compatible UART) which means that the serial port must receive 14 bytes before it calls the OS.

The OriLink® system is a Real-Time software that wants information in Real-Time and an UART FIFO READbuffer of 14 can sometimes cause unnecessary delays, especially when a connection to the workshop DMS system is used.

Because of this it is recommended to set the FIFO READ-buffer of the used Com: port to 1.

4.5.1. FIFO READ-buffer in Windows NT.

Open the control panel then double click the "Ports" icon. Select the Com port used for OriLink from the shown list and then Left-Click on the "Configure" button. Now Left-Click on the "More" button. A "Moore settings for Com(n):" window is shown. In This window there is a check box called "FIFO activated", uncheck this and Left-Click the "OK"-button. Now the OS asks for a reboot. When the PC is rebooted it is done.

Fler inställningar för (COM1:	×	Fler inställningar för (COM1:	×
<u>C</u> OM-portens nummer:	1	OK	<u>C</u> OM-portens nummer:		OK
1/0-portens basadress:	Standard 💌	Avbryt	1/0-portens basadress:	Standard 💌	Avbryt
<u>Avbrottsnummer (IRQ):</u>	Standard 💌	<u>H</u> jälp	<u>Avbrottsnummer (IRQ):</u>	Standard 💌	<u>H</u> jälp
FIFO aktiverat			EIFO aktiverat		

4.5.2. FIFO READ-buffer in Windows 98SE or later

First Right Click "This Computer" then select "Properties". Left-Click the "Device manager" tab and a browser for all hardware resources are shown. Left-Click the "+" sign in front of the "Ports (COM & LPT)" group. There will be a list of available serial (Com) and parallel (Lpt) ports.

Right-Click on the one used for the OriLink® system and select "Properties". Now Left-Click the "Port settings" tab and then Left-Click the "Advanced" button.

Drag the READ-buffer slider all the way to the left and then Left-Click the "OK"-button.

Image: Wight of the settings of correct connection problems. DK Select lower settings to correct connection problems. Cancel Defaults Defaults	Advanced Settings for COM1	<u>? ×</u>	Advanced Settings for COM1	<u>? ×</u>
	Select lower settings to connect connection problems. Select higher settings for faster performance. Beceive Buffer: Low (1) Iransmit Buffer: Low (1) High (16) (16)	Cancel	Select lower settings to correct connection problems. Select higher settings for faster performance. <u>Beceive Buffer: Low (1)</u> <u>Iransmit Bu</u>	Cancel

4.6. Installing OriLink® WinDB Manager (Professional only)

The OriLink® WinDB Manager is a database managing software for the PC-database of OriLink®. It uses the ODBC-Key "OriLinkWinDB" to handle Users, Job numbers, Tanks, Printing... and can also generate some useful reports. It uses the nationality of the Operating system of the PC to use the same language if it is supported.

Go to the **OLWDBMAN** folder on the OriLink® WinTools CD and run Setup.exe or the "OriLink WinDb Manager Rnnnnn.exe". An installation window appears. We recommend leaving all as default.

4.6.1. In older versions.

Click the OK-button.

Click the "large" button to install the software.

Click the OK-button.

Now the software is installed to the folder $C:\langle Orilink | WinDB Manager$. If Windows appears that asks you if you want to keep the existing file click on the YES-button.

Now a window pops-up telling that the installation was successful. Click the OK-button.

Restart the computer.

4.6.2. In newer versions (R10 or later)

First an extraction window comes up.

Then at next window select <Next>.

Then at the next window select <Next>.

Then a window stating that the installation has been done, click <Finish>

4.7. Check for late updates

On the OriLink® WinTools CD go to the *Extras**Patches* folder. In this folder there are late software updates. To each update there is a ReadMe text file describing what the update does and if or when you should use them. In the ReadMe file there is also a description of how to apply them. Normally the only thing to do is to copy them to the OriLink folder replacing the existing one.

Always make a backup of the files you are going to replace before you replace it or even better a backup of the whole C: Orilink folder

Hint! Open the C:\Orilink folder, make a new folder called Backup, Open the Backup folder, Make a new folder called "the date of today" (YYMMDD) and copy the files that are going to be replaced from OriLink folder to Orilink\Backup\YYMMDD.

Or right-click on the C:\Orilink folder and select copy. Then Right-click where you want the copy and select paste. Then rename the Orilink folder copy to something informative like. "Orilink_working_YYMMDD".

🗐 OriLink® WinDB Manager 1.11 Release Setup	×
Begin the installation by clicking the button below.	
Click this button to install OriLink® WinDB Mar the specified destination directory.	ager 1.11 Release software to
Directory: C:\Orilink\WinDB Manager\	Change Directory
C: (Onlink(Windor Manager)	
E <u>xi</u> t Setup	

DRILINK®

5. OriLink® engine

The OriLink® engine is the core of the WinTools software and it is the only thing that needs to be running. It acts as the link between the hardware and software modules. The engine is controlled from its main window. All changes in the engine should be followed by a restart of the system

riLink® Engine Pro		×
	ORILINI	<°
Port	COM1: [EXE]	
Packet/Bytes:	167:5742	
CS/FR/TO:	0:0:0	
Net Load:	7%(1)	
PC-side Clients:	4 [4]	
No of modules:	25	
Status:	Online	
Version:	1.010RC7	sh
	$\langle \langle \langle \rangle$	Engli

Port:	Shows the used serial port.
Packets/Bytes:	Shows communication.
CS/FR/TO:	Shows communication errors.
	CS = Checksum
	FR = Frame
	TO = Time-out
Net Load:	Shows load in OriLink® network
PC-side Clients:	Shows number of total clients [Services clients]
	(clients means graphic units and services)
No of modules:	Shows number of hardware modules
Status:	Shows if OriLink® hardware is connected to the set
	Com port.
Version	Shows version of the installed Engine
Lower right	Shows the selected language, here English.
corner	



A small "O" icon will always be visible in the Info tray, lower right corner of screen, indicating that the OriLink® engine is running.

In some Windows versions it can be hidden in the icon list and be shown by click on the icon list expand symbol.

If the "O"-icon is double-clicked the engine window will be shown.

Clicking the X tab in the upper right corner of the Engine window closes the Engine window but it does not shut down the engine.

To open the engine control menu "right-click" some were in the engine window or on the "O"-icon in the Info tray. The result will be like this.

Below Properties menu item new items will be automatically added for services loaded.



Below the line under Properties it is possible to add a personal Fast menu containing the most used items. Se chapter "10.3 Creating submenus in the engine control menu".

Typical things are workshop layouts, WinDb Manager, logs, ... and similar and can look like this.



5.1. Update PNP Array

The "Update PNP Array" tool is used to see a list of hardware modules and some information about them. The shown layout demands the use of engine.exe 107 or later.

After making changes to the system set-up, open this and click the "Rescan" button to issue an order to update the in PC memory stored PNP array.

The system will do this automatically but using the "Rescan" button speeds it up.

\ Orilink©) Engine v[1	.08]PROPNP Li	st					
Address	Туре	Version	Flags	Uptime	BootReason	Last	NoU	Close
1005	MPDM100	MPDM10010rc1	VU	0 00:41:38	PowerUp	9.08	154	
2005	PM100	PM10007	VU	0 00:41:40	PowerUp	8.88	131	
3005	KP100	KP10010rc2	VT	0 00:41:41	PowerUp	8.98	129	
4005	LED101	LED10103	VU	0 00:41:42	PowerUp	8.77	171	
8005	TCM100	TCM10002	VT	0 00:41:43	PowerUp	8.63	151	
								Rescan
4								

Column	Description	Values	Comment	Applies to	Pc demands
Address	Module address	1xxx, 2xxx,		All modules and module software versions.	All OLWT versions.
Туре	Type of module	MPDM100, LED101,	Type + Hardware/Feature	All modules and module software versions.	All OLWT versions.
Ver	Software version	TYPEXXXXX (RCYY)		Flash chip (18F452)	Version 6 with engine update version 107RC18 or later.
Flags	Functional information	"O"	Old PNP model	Older chip versions	Uncheck "Disable PNP frame…" in engine properties.
		"N"	New PNP model	Latest OTP chip versions (16C67)	Check "Disable PNP frame" in engine properties if all modules have this flag.
		"V"	VERBS PNP model	Flash chips (18C452)	Version 6 with engine update version 107RC18 or later.
		"U"	Unterminated	Chip versions and PCB versions that support this.	OLWT Version 6 or later
		"T"	Terminated	Chip versions and PCB versions that support this.	OLWT Version 6 or later
		"L"	Setup Lock jumper off	MPDM's and LED's with chip versions and PCB versions that support this.	OLWT Version 6 or later
		"R"	Clock module present.	PM's and LED's with chip versions that supports this.	OLWT Version 6 or later
Uptime	Time since last reboot	DD HH:MM:SS		Flash chip (18F452)	OLWT Version 6 or later
BootReason	Reason for reboot	UnKnown	Unknown error	Flash chip (18F452)	
		Software PowerUp WDT	When flashed Normal power on Module hang up		OLWT Version 6 or later
		BOD Sleep	Low voltage Resume from sleep mode		
		Reset	Rest button pressed		

DRILINK®

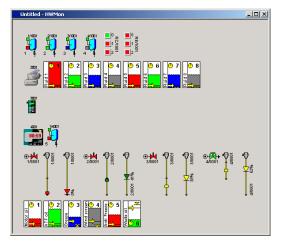
		StackOverflow	Software error	
		StackUnderflo	Software error	
		W		
LastUpdate	Time since	SS.decimals		OLWT Version 6 or
	last PNP			later
	update.			
NoUpdates	Number of	XXXXXXX		OLWT Version 6 or
	PNP			later
	updates.			

In this list all modules of an OriLink® system should appear. If a module does not appear something is wrong. The PNP support of the engine could be set in the wrong way, see 5.4 Properties. Other reasons could be modules with the same address or wrong termination of the communication loop, see installation manual for OriLink®.

5.2. OriLink® Neighbourhood

The OriLink® Neighbourhood is a window that shows a graphic representation of the system. Each individual part of the system is shown as an icon and by right click an icon a control menu appears. With this menu the actual unit could be controlled. With the basic version normal day-to-day tasks can be carried out and the other things can be shown. If the professional version is used everything can be edited, this is then password protected.

The default password is "2222" for OriLink® WinTools R7 or later and "1111" for R6 and earlier. It can be edited in the orilink.ini file



5.3. Stop Engine

By clicking on Stop Engine the engine together with the rest of the WinTools software is shut down. To prevent shut down by mistake the shut down must be verified by clicking the OK button in a window that is shown.

5.4. Properties

Properties are used to change the behaviour of the engine and to add software modules called services and OCP drivers.

In the upper part of the properties window there is a frame named "Communication". First there is a list of possible communication ports. If one in the list is double clicked it will update the Com Port parameter. Next is the configured parameters that controls the communication between the OriLink® system hardware and the WinTools software.

Parameters

Comport

Type the correct Com?:, default is Com1:. For laptops without serial port use a PMCIA serial port card. *The use of a USB to serial port adapter is not recommended*, it can give random results.

Boost Priority

This is used to alter the PNP update priority for the PC. This should normally not be changed, default is 40.

Disable Module Status Engine

This can be used to improve performance in systems were there is no need to see a graphic representation of the OriLink® system. It removes the communication needed for updating the graphic representation.

OriLink®	Engine	X
<u>^</u>	Do you want to unload OriLink® Engine?	
	<u>Y</u> es <u>N</u> o	

Properties		×
Communication		
PortName DeviceName		Ok
COM1 \Device\Serial0		Cancel
	DM1:	
Boost Priority (10-90) 40		
Disable Module Status Engi Disable Broadcast Server Disable 'FRAME_PNP' eg 0 Disable Client Timeouts		
Loaded Services		
Service Identity	Filename	Info

Disable Broadcast Server

DRILINK®

If this is enabled the OriLink® server can broadcast its existence in a network. This makes it possible to run a hardware monitor such as HWMon2.EXE (OriLink® Neighbourhood and customer layouts) on other PC's in the network.

Disable "Frame PNP" e.g. Old Type

If all modules show "N" or "V", when running update PNP array, this should be checked.

If there are modules that show "O" it must be unchecked to make it possible to see these modules on the PC.

Disable Client Timeouts

This controls if not accessible clients should be disconnected or not, this should normally be unchecked.

Loaded Services

In the lower part of the properties window there is a frame named "Loaded Services". This frame contains a table of loaded services. In this window services can be added or removed.

Right-click the white window.

operties Communication			
PortName DeviceName COM1 \Device\Serial0		<u> </u>	Ok Cancel
Com Port (Ex. Com1:) CDM1: Boost Priority (10-90) 40 Disable Module Status Engine Disable Broadcast Server Disable FRAME_PNP* go (DTyp Disable Client Timeouts	e		
Loaded Services Service Identity	Filename	Info	
	Delete Properti Add new	es Kiservice	

Right-click a service and the service menu appears.

Left-click on Delete to unload the service.

Left-click on Properties to modify the service if the service has some adjustable properties.

Left-click on Add New Service to add a new service.

Select service dll file and left-click Open-button.

Select Servic	e File	<u>? ×</u>
Look jn: 🜔	Orilink 💌 🗲 🗈 📸 🖽 -	
🚞 Run		
S brand.dll		
Sclock.dll	1	
WinDB.dll	•	
[-		
File name:	Oper	
riie <u>H</u> anie.		
Files of type:	Service DII Files (*.dll,*.svr)	el

Properties			×
Communication			
PortName DeviceName COM1 \Device\Serial0		• •	Ok Cancel
Com Port (Ex. Com1:) COM1: Boost Priority (10-90) 40 Disable Bradcast Status Engine Disable Bradcast Server Disable FRAME_PNP*eg OldTyp Disable Client Timeouts Loaded Services	e		
Service Identity	Filename	Info	
Onlink® Clock Module 1.09 Onlink® WindowsDB Delete Properties Add new se	rvice	01A1000 01A2000	



Editing the corresponding .ini file can also do configuring of the properties for the engine, services and drivers.

The content of the .ini files could vary between versions.

In all .ini file there is a manual section at the end.

Orilink.ini (R10 example) [Log] FileName=C:\Orilink\Logs\engine.log MaxLines=100 Flags=

[NET] Port=Com1: BoostPriority=40 DisableModuleStatusEngine=0 DisableBroadcastServer=1 DisableFramePNP=1 DisableClientTimeout=0

[SERVICE] Service=Clock.dll;WinDB.dll

[Language] PreferedLanguage=English

[Warning] SilentTime=0 Sound=0

[PASSWORD] Password=2222

[DBManager] AllowSizing=0 Password=1111 ManagePassword=13131313 WinDB.ini (R10 example for WinDB service)

[Log] FileName=C:\Orilink\Logs\windb.log MaxLines=200 Mutex=1 Flags=

[Service] SplitChar=. ValidationType=2 AnalogueUpdateTime=120

[JobValidation] DisableMultipleReelsOnOk=0 DisableMultipleReelsOnReorder=0 CheckPartNo=0 CheckDepleted=0

[ForwardTransaction] Enable=1 Validation=0 AllowZeroTransaction=1 EnableJobTable=0 DeleteOnDepletion=0 FIFO=50000

[OCP] OCP=XXXX.dll;YYYY.dll UsePartno=1

5.5. Run

It is possible to create a customized Run item in the engine control menu. How to do this is described in the chapter "Advanced features" subchapter "Creating an engine control menu run item".

6. OriLink® Neighbourhood

OriLink® Neighbourhood is a shortcut to a software called HWMon2.EXE. It generates graphic representation of an OriLink® monitoring system. This type of software is called Hardware Monitor, it is modularised as everything else for OriLink®.

Different layouts of the graphic Neighbourhood can be obtained by the use of "switches".

6.1. Start

The hardware monitor can be started in three ways.

By clicking <Start> (lower left corner of screen), select <Programs>, select <OriLink> and then click on <OriLink® Neighbourhood>

If the OriLink® engine is running right click the small Orion "O" in the Systray (lower right corner of screen) and the engine menu appears. Left click <OriLink® Neighbourhood>. Or by running,

"HWMon2.exe -PNP"	The full neighbourhood is shown, same as selecting OriLink® Neighbourhood from the engine menu.
"HWMon2.exe –EDIT"	HWMon2 starts in edit mode with a blank layout.
"HWMon2.exe –PNP –Edit"	Starts HWMon2 in edit mode with a full layout.
"HWMon2,exe -WARNING"	Starts HWMon2 showing all things that has a warning status.

6.2. Technical description

The Hardware monitor HWMon2.EXE uses a "hard coded" background (grey) and .OCX files to create controls for modules / units of the system.

The hardware monitor can be used to show and control an OriLink® system connected directly to the PC or to another PC in a TCP/IP based network. All changes can be made during operation, which results in a minimum disturbance in the workshop.

If the hardware monitor is started on a PC directly connected to an OriLink® monitoring system and the engine is running the hardware monitor will connect to the server (engine) as a client and automatically activate (show) OCX controls for all OriLink® modules in the system. Each module (unit) will be presented with an icon together with the address of the module.

6.3. Neighbourhood Menu (R6)

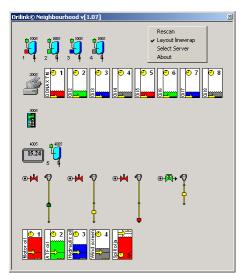
The Neighbourhood has a menu that opens by "Right-Click" on its background.

"Rescan" will start a rescan and rebuild of the Neighbourhood window.

"Layout line wrap" will toggle between line wrap or not when showing graphic controls.

"Select Server" will open a window that will display all available OriLink® servers in the network.

Sele	ct server			×
٦	Servers		4	Save
	Name	Version	IP address	
	verkstan	Orilink® Engine v1.04rc1 - P	192.168.0.2	
				Rescan



In this example it has found an OriLink® server with the network name "verkstan" at IP-address 192.168.0.2.

Select it and "Left-Click" the Save button and the Neighbourhood will show all units OriLink® modules connected to this server.

If an OriLink® server should be visible on a network it must have remote COM access enabled, se chapter "OriLink® Server-Client Set-up".

"About" will show information about version etc.

6.4. Neighbourhood Menu (R7 or later)

The Neighbourhood has a menu that opens by "Right-Click" on its background.

"Rescan" will start a rescan and rebuild of the Neighbourhood window. Observe that it will only rescan the modules found when it was opened so if it is opened to soon after the engine was started some modules may be missing. This is solved by closing down the Neighbourhood and open it again.

"About" will show information about version etc.

6.5. Quick status information

To get a quick status information about a module or part of a module hold the mouse pointer over the graphic symbol for the object that you want information about (hoover). This is only valid for parts that have intresting "real-time" information like tanks and analogue sensors.

6.6. Password protection

Right-click on any graphic control in the OriLink® Neighbourhood will open an item specific menu.

With the Basic version the configuration can be shown but not changed.

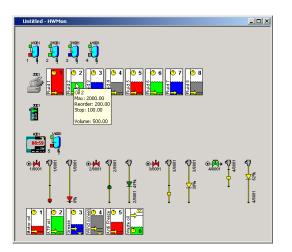
With the professional version the configuration can be changed and it is password protected.

The default password is "2222" for OriLink® WinTools R7 and later. For R6 and earlier it is "1111".

It can be changed by editing the "Password=", header [PASSWORD], line in the orilink.ini file.

[PASSWORD] Password=2222

If the wrong password is typed in or the ESC button is pressed the control will open in view only mode. Fields that cannot be edited are greyed out.





6.7. MPDM (23 400)

The Port (Reel) is a member of an MPDM. The MPDM is called the host. Each of the four ports in a MPDM is presented with a reel icon.

Above the icon is the Port number and Address shown and to the lower left the reel number is shown.

If the little square in the upper left corner is green the reel is available for dispensing. If it is yellow the reel is preopened. If it is red the reel is open.

Between the reel number and the reel there is a coloured square, this has the same colour as the tank it is connected to.

1/HEEL1

If there is a flash over the reel it indicates a short circuit or at least more than 1.25A on the valve output.

If there is a small red "L" in the upper right part of the reel the PPU (Calibration) lock jumper has been removed. If the PPU lock jumper have been removed calibration cannot be changed.

"Right-Click" on the icon will open a menu. This menu is used to configure the hose reel and the MPDM it is connected to.

If the key switch on the MPDM is turned to the OFF or Override position keys will show over the reel icon

6.7.1. Optional connector

This is as factory default not equipped with a connector that can be soldered in place and used for miscellaneous digital I/O. It is divided into two groups RC and RE with three signals each. The graphics shows the status of each signal. They have no adjustable properties.

6.7.2. Host Properties

With host properties means properties that are valid for the MPDM rather than each individual port.

First there is a login window, fill in the password and the press OK button.

SphereNo: Sets to which sphere the MPDM belongs. The sphere property can be used to limit the use of the MPDM to one or several keypads that belongs to the same sphere. This can be used to set the reel numbers of the same oil grade to the same as in other spheres.

> Work bay 1 Work bay 2 Work bay 3 Sphere number 1 2 3 Oil grades Reel number Reel number Reel number Motor oil 1 1 1 2 Gearbox oil 2 2 Hydraulic oil 3 3 3 4 Coolant 4 4

It is possible to open a dispense point in another sphere by typing "ReelNo.SphereNo" at the Reel: prompt on a keypad. Reel:2.1<ENTER>will open Reel number 2 in sphere 1.

For example









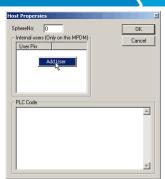
DRILINK®

Internal users:

DRILINK®

OK

Cancel



-

-

If Add User is selected an AddNew PIN-code window appears.

New PIN:

This only works if the MPDM is flashed to software

Then the MPDM has a small local user database that

can store up to 16 users by a four digit PIN code only. **OBSERVE** ! When flashed with this software the MPDM does not support external validation or

version MPDM10010 IUD.

By "Right-Click" on the white background a User

Pin can be added.

sending transaction data to a database.

Type a new PIN-code and then Left-Click OK.

By "Right-Click" a User Pin it can be deleted.

Select Delete User and "Left-Click" the OK then the selected the user is deleted.

PLC Code: In this window PLC code can be added to create advanced functions for the MPDM, see.Chapter "12. Using the MPDM as a PLC (Programmable Logic Controller)".

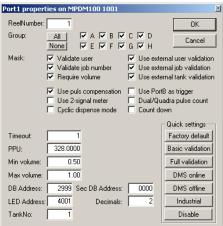
6.7.3. Port(n) properties.

This choice opens the reel property window. First there is a login window. If ESC or wrong password is typed the reel property window opens but only for viewing. See also the MPDM manual.

ReelNumber: Is the Reel identification number.

Group: Sets to which group(s) the reels belong(s) to.

- Sets the functionality of the dispense point. Mask:
 - Use pulse compensation, Sets whether the automatic after-run compensation should enabled or not.
 - Use PortB as a trigger, Sets if an active low on Port B should start a dispense of the set "Max volume" or not.



- Use 2-signal meter, Sets whether to detect two pulse trains from the meter or not. If a meter with two phase separated pulse trains is used this will increase accuracy, compensate for oscillating flow and detect flow direction.
- Dual/Quadra pulse count, Sets whether the both up and down pulse flanks should be counted or not. Enabling it with only one pulse train set double the PPU and with 2 pulse trains the PPU will be 4 times. This can increase accuracy a lot especially for meters with low PPU or when dispensing small volumes.
- Cyclic dispense mode, Sets whether the dispense point should be used as a lubrication timer or not. If enabled it dispenses the set "Max volume" every "Timeout" in minutes. If pulses are not detected within 30 seconds the dispense point shuts down and set a pin of the optional connector to low. See chapter 13 for details.

Count down, Sets whether the display should count up or down.

Timeout: Specifies the dispense no activity timer.

PPU: Pulses Per Unit, the calibration. If the "PPU Lock" jumper on the board is removed this field is greyed out and cannot be changed.



Min volume:	Minimum dispensable volume, use decimal point. (Do not set this lower than 0.050 and "Use pulse compensation" at the same time without proper testing.)
Max volume:	Maximum dispensable volume, use decimal point (also used as dispense volume when "Use PortB as trigger" is enabled).
DB Address:	Data base address (2XXX). This is used for external validation. Must be set to 2999 if the reel should use the PC database.
Sec DB Address:	Secondary data base address (2XXX). This can be used for a local backup of transaction in a printer module. If a printer is connected a recite will be printed.
LED Address:	Led display address (4XXX).
Decimals:	Sets the number of decimals shown on the display specified at LED Address.
Tank No:	Which tank the reel is connected to.
Quick Settings:	Only R10. These buttons will set the dispense point to some commonly used generic setting.

When everything is properly set "left-Click" the OK button to save the set-up.

Each port must be configured according to the wanted functionality. The ports can be completely individually configured.

To the left is a normal configuration for a port that should fully work with the OriLink® PC database.

6.7.4. MPDM change address.

This choice is used to change the address of the MPDM. First there is a login window then the "Enter New Address" window opens. Type the new address and then "Left-Click" OK button to save the setting. See OriLink® manual for address recommendations.

Change Address X IOUE OK 1000-1999 Cancel

DRILINK®

6.7.5. MPDM Reboot module.

Selecting "Reboot module" will open a confirmation window and if <OK> button is clicked a Reboot order will be sent to the module.

No configuration or other things will be changed in the module it will just make a reboot.

This can be used instead of a power down-power up or pressing the Reset button of the module to make changes take effect faster or just make a fresh start of the MPDM.

It will show in the "PNP array" as boot reason "Software".

Reboot module ?	
Will not affect any configurations settings in the module! -Reboot ONLY!	

OK

Cancel

6.8. KeyPad (23 401)

The address of the KP is shown above the icon. "Right-clicking" the icon open the KP menu.

The KP icon changes the visual appearance according to the status of the physical KP.

The KP icon changes when it is equipped with a serial port interface kit and a chip v1.00.00 or later, the small triangle on the left side.

6.8.1. Edit Fast Menu

Selecting this opens a window for editing the Fast Menu. The Fast Menu is accessed by pressing the "?" mark on the KP.

First there is a login window, fill in the password and the press OK button.

Then the KP FastMenu window opens.

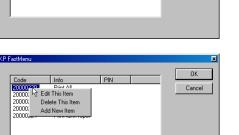
In the "Code" column is the address of the target module + the Fast menu code for item menu wanted.

In the "Info" column is the item text presented in the keypad fast menu item list.

If the column "PIN" contains a value a PIN request will come up and the set PIN must be given to get to the menue item.

By "Right-Click" on a code item it could be edited or removed.

By "Right-Click" in the white area a new item can be added.



Print All Print by transno Print by jobno Print by empno Print tank repor

Adding a Fast Menu item is done through the Add New Fast Menu Item window.

To create the *Code*, see manuals for the specific module.

The *Info* field will be shown on the KP display.

If a *PIN* code is added (4 figures) to the fast menu item it must be typed in from the KP when this item is used

6.8.2. KP properties.

This choice is used to define how the KP should be set-up. First there is a login window, fill in the password and the press OK button. There are two different possible properties windows, one older and one newer.

Properties 🛛	Properties
Default prompt OK © [Reet] OK © CODE 00009999 © Fast Menu Cancel	C [Feet] C CDDE 00009999 Cancel
Serial Port	SphereNo: 0
Asyncronious (1200 Baud 8N1) Syncronious (2400 Baud 8N1)	Serial Port
1.[Enter] on CR/LF Decode Enable filter	Baudrate 2400 💌 8 bit, no parity, 1 stopbit
Filter	1.[Enter] on 🔲 CR/LF 🔲 Decode 🗖 Enable filter
2.[Enter] on CR/LF C Decode C Enable filter	Filter
Filter	2.[Enter] on 🔲 CR/LF 🔲 Decode 🔲 Enable filter
3.[Enter] on 🔲 CR/LF 🔲 Decode 🗌 Enable filter	Filter
Filter	3.[Enter] on 🔲 CR/LF 🔲 Decode 🔲 Enable filter
4.[Enter] on CR/LF C Decode C Enable filter	Filter
Filter	4.[Enter] on 🔲 CR/LF 🔲 Decode 🔲 Enable filter
	Filter

roperties for	KP100 300)1	
Default prom (© [Reel:] (C CODE (C Fast Mer	000000	00	Cancel
SphereNo:	0	-	Factory Default
Timeout:	60		
Serial Port Baudrate	2400	▼ 8 bit, n	o parity, 1 stopbit
1.[Enter] on	CR/LF	Decode	🗌 Enable filter
Prompt	Reel	🗌 Hide	🔽 Block
Filter			
2.[Enter] on	CR/LF	Decode	🔲 Enable filter
Prompt	PIN	🗌 Hide	Riock
Filter			
3.[Enter] on	CR/LF	Decode	🔲 Enable filter
Prompt	WO	🗌 Hide	Riock
Filter			
4.[Enter] on	CR/LF	C Decode	🔲 Enable filter
Prompt	Vol	🗌 Hide	Block
Filter			

Newer/R10



Edit Fast Menu Properties

Change Address

OK

Cancel

Add New Fa	st Menu Item	×
Code: Info: PIN:	20000220 🛛	Cancel



The KP could be set-up in three different ways,			
REEL: This is a	default normal workshop use.		
CODE: This is f	for special use for example only JOB number input. See manual for the appropriate module.		
Fast Menu:	This set the KP for Fast Menu use for example Office or Stock use.		
Sphere No	This can be set if the keypad is equipped with a FLASH chip and OriLink® WinTools R7 or later is installed.		
	If the keypad is equipped with an OTP chip the SphereNo is always "0".		
Timeout:	This set the KP session inactivity time-out. It is in seconds and 60 or less is recommended for general use. Above 60 can be used for example when it is used for door opening and similar functions. Setting it to 0 disables timeout.		

Next part of the KP properties window is the set-up for the optional serial interface.

Baudrate:

Must be set to match the setting of the reader used. If our Dallas key/iButton reader kit 23419 is used the option "DallasKey" should be selected.

If the keypad is based on 2 printed cirquit boards (older type) only 1200 and 2400 Baud is possible. If something else is selected it will default to 1200.

If the keypad is based on 1 printed cirquit board (newer) and the module software is Kp10010RC1 or later any of the listed baud rates could be selected. The keypad will auto detect asynchronous or synchronous communication.

Up to four different inputs can be configured. Each has 4 ways of triggering, ENTER-button on keypad, CR/LF, Decode and CR/LF or Decode.

CR/LF and Decode unchecked:

Makes it possible for the user to verify the input by pressing ENTER-button on Keypad.

Only CR/LF checked:

Results in "auto-ENTER" if the reader sends CR/LF at the end of the information. All other inputs must be verified by pressing ENTER-button on Keypad.

operties			
Default prom (Reel:) C CODE C Fast Mer	0000999	9	OK Cancel
SphereNo:	0		
Timeout:	60		
-Serial Port-			
Baudrate	2400	8 bit, no	parity, 1 stopbit
1.[Enter] on Prompt	4800 9600 14400 19200 DallasKey	Decode Hide	Enable filter
Filter	e andertoy		
2.[Enter] on	CR/LF	🗌 Decode	🔲 Enable filter
Prompt	PIN	🗌 Hide	💌 Block
Filter			
3.[Enter] on	CR/LF	Decode	🔲 Enable filter
Prompt	Wo:	🗌 Hide	🔽 Block
Filter			
4.[Enter] on	CR/LF	Decode	🔲 Enable filter
Prompt	Vol	🗌 Hide	Riock
Filter			

Only Decode checked:

Results in "auto-ENTER" if the reader sends a "complete decode" signal. All other inputs must be verified by pressing ENTER-button on Keypad.

Both CR/LF and Decode checked:

Results in "auto-ENTER" if the reader sends CR/LF or a "complete decode" signal. All other inputs must be verified by pressing ENTER-button on Keypad.

Enable filter:

In addition to this an individual input filter can be enabled.

Prompt:

This defines for what prompt the setting should be used for. It must match the prompt shown on the keypad exactly and without the colon.

Hide:

If this is checked the input on the keypad will be represented by *'s. If the prompt is Pin or PIN it will always show *'s

Filter:

This defines the filter that should be used for the specific prompt.

A "0" will drop the character in that position and a "1" will pass the character in that position to the system. This can be used to extract a part of the read data.

Example:

A barcode with a 10-character serial number is read, A1209/54EH, were the A1209 is the identifier for the object that should be filled. Set the reel to ask for Job number, enable input filter 2 and type 1111100000 in the filter field

When everything is set, left-click the OK-button.

6.8.3. KP change address.

This choice is used to change the address of the MPDM. First there is a login window then the "Enter New Address" window opens. Type the new address and then "Left-Click" OK button to save the setting. See the OriLink® manual for address recommendations.

Change Address	×
3005	OK
3000-3999	Cancel

it affect any ht ONLY!

Cance

X

ns settings in the m

OK

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6.8.4. KP Reboot module.

Selecting "Reboot module" will open a confirmation window and if <OK> button is clicked a Reboot order will be sent to the module.

No configuration or other things will be changed in the module it will just make a reboot.

This can be used instead of a power down-power up or pressing the Reset button of the module to make changes take effect faster or just make a fresh start of the KP.

It will show in the "PNP array" as boot reason "Software".

OBSERVE!

If keypad properties have been modified it is recommended to reboot the keypad so the modifications take effect.

6.9. Printer Module (23 402)

The Printer Module (PM) contains a printer interface and a database. In this database there are 8 software tanks, room for 32 users and 900 transactions. A customized receipt layout can be programmed.

6.9.1. Printer interface and database.

This icon represents the Printer interface and the database.

Right-click the icon and a menu will be shown.

6.9.1.1. Transactions

If transactions are selected a window for handling the transaction database appears. It can have either of two layouts.

\sim	1 1	•
O	lder	versions

# 00001 Time:2002-02-10 20:16:59 # 00002 Time:2002-03-30 13:59:54	
# 00003 Time: 2003-01-27 17:29:31	User:291 JobNo:123456789
# 00004 Time:2003-01-27 17:58:11	User:291 JobNo:123456
	Update
Transaction Reports	DeleteAl
By Transaction Number	Ueleteali j
By Job Number	

				ersions			
	ns in PM10) with add	lress 200	14.			
-Last Fran TransNo.	nsactions — Date.	Time.	UserID.	Work order.	TankNo	DispVol	
00001, 00003, 00003, 00004, 00005, 00006, 00006, 000007, 00008, 000010, 000011,	2017-03-20, 2017-03-20, 2017-03-20, 2017-03-20, 2017-03-20, 2017-03-20, 2017-03-20, 2017-03-20, 2017-03-20, 2017-03-20, 2017-03-20,	20:37:31, 20:38:28, 20:39:29, 20:40:29, 20:41:28, 20:42:28, 20:43:28, 20:43:28, 20:44:28, 20:45:28, 20:46:28,	9999, 9999, 9999, 9999, 9999, 9999, 9999, 9999, 9999, 9999, 9999,	Work order, 2#46330, 2#46330, 2#46330, 2#46330, 2#46330, 2#46330, 2#46330, 2#46330, 2#46330,	7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,	2:290 2:140 2:140 2:140 2:140 2:140 2:140 2:140 2:140 2:140	1
All b	tion Reports - netween date: nsaction numi		By job ni 3y employe		[Fetch a	11 o ion manag all transacti all transact	ing
Report p From 2017-06	To	17-06-09	-	Save		Cancel	

From this window it is possible to,

Update:	Updates the Last Transactions area or fetch all transactions existing, depending on version, to see if any new transactions have been made.				
DeleteAll:	Empties the database.				
ByTransactionN	umber: Prints a transaction report for an interval of t connected to the module.	ransactions if there is a printer			
ByJobNumber:	Prints a transaction report for a job number t connected to the module.	ransaction if there is a printer			
ByEmployeNum Report period:	ber: Prints a transaction report for an employee number transactions if there is a printer connected to the module. Here you select the start and end dates for the wanted report period. Select the dates by the date picker and click <save> when done. Then print your reports.</save>	Report period From To 2016-01-15 2016-01-22 Save må ti on to fr fill fill fill solution 1 12 13 1 2 3 4 5 6 7 8 9 10 11 12 13 14 16 16 17 18 19 20 21 22 23 24 25 26 7 8 9 10 11 12 13 14 16 16 17 18 19 20 21 22 24 25 26 7 8 9 10 11 12 13 14 45 16 17 18 19 20 21 22 30 31 1 2 3 4 5 6 7 2 11 2 3 4 5 6 7 2 14 16 16 17 14 16 16 17 12 2			

Edit Receipt Change Address Reboot Module

Transactions

Jobnumber

Users



6.9.1.2. Users

If users are selected a window for handling the user database appears.

Right-click the window and users can be added or all users could be deleted.

Pin	Group	Name		
1111	ABCDEFGH (255)	James		Exit
	Add new DeleteAll			
	1111	1111 ABCDEFGH (255)	1111 ABCDEFGH (255) James	1111 ABCDEFGH (255) James

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mploy Pin	Group	Name	Save and
Delete Edit DeleteAll	ABCDEFGH (255)	James	Exit

The user Add/Edit window looks like this.

Edit user									×
Employe	Number:	107							OK
Pin:		1111	_						Cancel
Group:	⊙ All ⊂ None	•	4 () E ()	B F	•	C G	() ()	D H	
Name (8	char):	Jame	s						

6.9.1.3. Job number

If Job number is selected a window for handling the job number database appears.

Right click on the white window and Right-click on a job number edit Fill in or edit and then click select Add new to add job numbers.

or delete that job number.

OK-button.

Job Number 9898 9797		Save and Exit Exit
	Add new DeleteAll	

Job Number	 Save and Ex
9698 Delete Edit DeleteAll	Exit
Deleterni	

Add new jobn Job Number:	2 OK Cancel
Edit jobno	>

If the printer module is equipped with a FLASH chip (yellow label) the use of wild card characters are possible. This feature can be used to make the system to only accept JOB numbers with a certain layout.

The wild card feature supports three different wildcard placeholders.

?	Accepts any alphanumeric character in this position
#	Accepts any numeric character in this position
@	Accepts any alphabetic character in this position

Below there are some samples of how to use wildcards.

ABC###	results in ABC123 valid but not ABC1234 or ABC12D
???????	7 characters must be typed
SE@@@@	6 letters is OK as long as it the 2 first are SE
#### #####	4 or 5 figures are OK

6.9.1.4. Edit Receipt

If Edit receipt are selected a window for handling the receipt layout appears.

From this window it is possible to,

Load default:	This can be used to reload the default receipt if something has gone wrong.
Load compact:	This can be used to load a more compact receipt.
Load from file:	Can be used to load a custom made receipt from a text file.
Print Test:	Can be used to test the printer.
Report>>>:	Can be used to edit the report layout.
Save and Exit:	Downloads the receipt to the printer module and exits.

Exit: Exits without doing anythin	Exit:	Exits	without	doing	anything	g.
-----------------------------------	-------	-------	---------	-------	----------	----

The Receipt window:

Can be used to edit the receipt in the printer module directly. All text and underlining without @-symbol in front of it can be edited normally. All characters after or between @-symbols must be edited with knowledge of what they mean. The same goes for the thick vertical line-symbol in front and end of "receipt title" and "volume: @09".

The @-symbol is a placeholder for a field value from the database and the two following characters identify the field.

The thick vertical line-symbol in front and end of is control codes for the printer to start and stop big character printing. These characters cannot be typed in easily but they can be copied and pasted. The one in the beginning and the one at the end is not the same.

On the OriLink WinTools CD in the folder "?:\Extras\Reciept files\PM\" there are some sample layout text files.

When creating or editing the PM report layout the rules stated in ReadMePM.txt file must be followed.

The ReadMePM.txt file can be found in the "C:\Orilink\Reciept\PM" folder or on the CD in the folder "?:*EXTRAS\Reciept Files\PM*)"

To restore the default report layout, click the "Load default" button and then the "Save and exit" button.

ceipt for PM1xx with address 2001. Receipt		≥ Save and Exit
p-1Dispense Receipt⊷0¶ TransNo:@01 Date: @10-@12-@13 @14:@15:@16 EmpNo: @03	<u> </u>	Exit
Rame: @04 Reel: @05 Tank: @05 Fluid: @21 JobNo: @07 ReqVolume: @08		Load default
<i>i</i> ⊅-1Volume: @09⊷0¶ @08		
+al		Load from file
		Print Test
	~	Report >>>

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6.9.1.5. Edit Report

If the Report >>> button is clicked the edit window for the report is opened.

This window has one white editing area for each part of the report. The fields placement holders, beginning with a @ sign is the same as for receipts.

Click in an area at the desired input place and edit like with for example notepad.

When you are finished click the Save and Exit button.

When creating or editing the PM report layout the rules stated in ReadMePM.txt file must be followed.

The ReadMePM.txt file can be found in the "C:\Orilink\Reciept\PM" folder or on the CD in the folder "?:*EXTRA\Reciept Files\PM*)"

To restore the default report layout click, the "Load default" button and then the "Save and exit" button.

6.9.2. Tank properties

8 icons like this represent the tanks.

- 1. Shows fluid name.
- 2. Shows total tank volume.
- 3. Shows update timer, double-click and it updates immediately.
- 4. Shows tank number.
- 5. Shows stock level.
- 6. Shows reorder level.
- 7. Shows Stop level.



If the mouse pointer is held over the icon for a short while the status of the tank will show.

Cancel

2000.00

500.00

100.00

Motor oi

By "Right-Clicking" a tank icon its properties can be edited.

When selecting "Properties" a login window appears. Type the password and "Left-Click" the OK button.

Now the tank property window appears. If a valid password is typed everything can be edited but if wrong password is typed or ESC is pressed only the Current Volume can be updated.

Acoustic Reorder Varning Acoustic Stop Varning

Fluid Color Back Color

Max Volume: Current Volume

Reorder Volume:

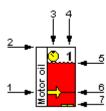
Stop Volume:

Fluid Name:

6.9.3. PM change address

This choice is used to change the address of the PM. First there is a login window then the "Enter New Address" window opens. Type the new address and then "Left-Click" OK button to save the setting. See OriLink® manual for address recommendations.

Change Address	×	I
2005	OK	
2000-2999	Cancel	
		1



Period: @4	se report0¶ D-@42-@43 - @50-@52-@53 : @60-@62-@63		Exit
- Report Subh	eader		Load default
JobNo (TransLine)	ß⊷1JobNo: @07⊷0¶ @99	•	
EmpNo (TransLine)	ß⊷1EmpNo: @03⊷0¶ @99	•	
TransNo (TransLine)	љ- -1TransNo: @290¶ @99	•	
Tank (TankLine)	p⊶1TankReport⊷0¶ @99	•	
Formats			
TransLine	Transno:@01 Date:@10-@12 EmpNo:@03 Reel:@05 Vol:@		
TankLine	p⊷1Tank @20⊷0¶ Name:@21	•	
- Report Foot (All)		
@99 1=@81 2=@82 @99			
,		_	

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Save and Exit

Reports for PM1xx with address 2001.

Main Report Report Header (All)

@99

6.10. Serial interface (23 403)

For now the OriLink® SIO module (Serial In/Out module, PC-Interface) only acts as a router and a communication line amplifier. It has no address or other configurable parameters and because of this it has no graphic representation in the OriLink® Neighbourhood.

6.11. LED display (23 404)

A LED graphic icon can have two different looks. It depends on if it is an older LED100 or the newer LED101 type. LED101 has a PCB version of **"203 02 66C"** or later. On the LED101 the built in dispense point controller port can be used as a normal dispense point.

LED101 shows both a LED and a REEL.

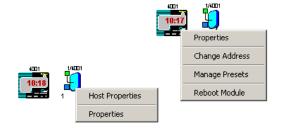
LED100 shows only a LED.

The LED icon changes the visual appearance according to the status of the physical display. The change is a real time status so there will be a difference between the icon and the physical display.

The address of the LED is shown above the icon(s). For a port icon for example Reel the port number is shown before the address as Port/Address. For a complete status description see **6.7 MPDM (23 400)**

"Right-clicking" the LED icon opens the LED menu.

"Right-clicking" the REEL icon (only LED101) opens the REEL menu.



Properties for LED101 4001

Clone address: 0000

Visible Time: 30

Disable clock

Disable update warning

Disable update time-out
Volume PNP update [s]

ПК

Cancel

Factory default

6.11.1. LED Properties.

This choice is used to define how the LED should be set-up. First there is a login window, fill in the password and the press OK button.

The LED could be set-up in three different ways,

- Visible Time: This sets how long a finished dispense should be shown before the LED times out to show the time or a "-" sign, the value is in seconds. Setting it to "0" means "Do not time-out".
- PPU: This is the calibration for the built in dispense point controller. For LED101 the PPU: field is greyed out because the PPU is set from the Reel Properties. For LED100 all fields are usable.

Clone address: This can be used to clone another display. Let's say that we have a LED with address 4005 that shows something we also want to see on this display, then we set Clone address to 4005 and the output of 4005 will also be seen on this display.

Mask: Disable clock: This sets whether the LED should time-out to showing the clock or a "-" sign.

Disable update warning: This sets whether the LED should blink to warn for a missed update or not. Checking this is mostly intended for displays that should show a tank content from a TCM with analogue sensor.

Disable update time-out: This sets whether the LED should time-out for missed updates or not. Checking this is mostly intended for displays that should show a tank content from a TCM with analogue sensor.

6.11.2. LED Change address.

This choice is used to change the address of the LED. First there is a login window then the "Enter New Address" window opens. Type the new address and then "Left-Click" OK button to save the setting. See OriLink® manual for address recommendations.



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31(96)

Use external user validation Use external job validation

Use external tank validation

Dual/Quadra pulse count

OK

Cancel

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6.11.3. LED Manage presets, only LED101.

The LED101 has support for "on module" button control of up to 16 adjustable preset volumes. These presets can be set from either buttons, a keypad or from a PC.

A factory default LED may have the 16 presets not programmed resulting in values like ????? or you may want to get back to the default values for some other reason.

By clicking the <Default> button the presets are set to the same volume as the preset id number.

Preset 1 is set to 1.00 Preset 2 is set to 2.00

and so on.

LED Reboot module. 6.11.4.

Selecting "Reboot module" will open a confirmation window and if <OK> button is clicked a Reboot order will be sent to the module.

No configuration or other things will be changed in the module it will just make a reboot.

This can be used instead of a power down-power up or pressing the Reset button of the module to make changes take effect faster or just make a fresh start of the LED.

It will show in the "PNP array" as boot reason "Software".

6.11.5. **REEL Host properties, only for LED101.**

With host properties means properties that are valid for the MPDM rather than each individual port.

First there is a login window, fill in the password and the press OK button.

Sets to which sphere the reel (dispense point) belongs. The sphere property can be used to limit
the use of the reel to one or several keypads that belongs to the same sphere. This can be used to set
the reel numbers of the same oil grade to the same as in other spheres.

Internal users:	PLC code is not supported by the LED101 that is
	why it is greyed out.

PLC Code: PLC code is not supported by the LED101 that is why it is greyed out.

6.11.6. **REEL Properties, only for LED101.**

This choice is used to define how the LED101 built in dispense controller port should be set-up. First there is a login window, fill in the password and the press OK button.

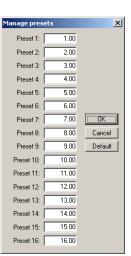
- ReelNo: Is the Reel identification number.
- Group: Sets to which group(s) the reels belong(s) to.
- Mask: Sets the functionality of the reel. For information see the MPDM Manual. Cyclic dispense mode is not supported by the LED, that is why it is greyed out.

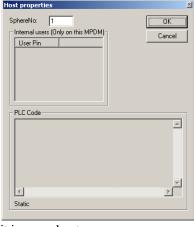
Timeout: Specifies the dispense no activity timer.

PPU: Pulses Per Unit, the dispense point calibration.

Minimum dispensable volume, use decimal
point. (Do not set this lower than 0.05 and "Use
pulse compensation" at the same time without
proper testing.)

Max volume: Maximum dispensable volume, use decimal point (also used for dispense volume when "Use PortB as trigger" is enabled).





Use puls compensation
 Use PotB as trigger
 Use 2-signal meter
 Cyclic dispense mode
 Count down

Decimals: 2

Port1 properties on LED101 4001

AIL Í

None

328.00

0.50 10.00

🔽 Validate user

Validate iob number Require volume

ReelNumber: 1

Group:

Mask

Timeout:

Min volume:

Max volume: DB Address: 2999

TankNo: 1

LED Address: 4000

PPU:



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DB Address:	Data base address (2XXX). Must be set to 2999 if the reel should use the PC database.
Sec DB Address	Secondary data base address (2XXX). This makes it possible to send transaction records to a secondary database. If it is a Printer module with a printer attached a receipt will be printed.
LED Address:	Led display address (4XXX). This field has no effect for a LED101, it will always use its own address.
Decimals:	Sets the number of decimals shown on the display specified at LED Address.
Count down:	Sets whether the display should count up or down.
TankNo:	Which tank the reel is connected to.
When everything	g is properly set "left-Click" OK button to save the set-up.

6.12. Clock module (23 405)

The OriLink® CM module (Clock Module) has no graphic control or graphic representation of its own in the OriLink® Neighbourhood.

In the Engine menu "Update PNP Modules" all modules with a CM will have the "R" flag set.

If there is a CM installed in the system (on LED or PM) it will be automatically detected and will supply the date and time to all modules that needs it.

The date and time for a CM can be set from a Keypad or by using the software Olset.exe found in the C:Orilink folder.

Observe ! - There can only be one date and time source in a system.

See also chapter "7.1 Time synchronisation"

6.13. Tank control module (23 408)

The graphic control for a TCM (Tank Control Module) is divided in three objects for each port, one solenoid valve one discrete level sensor symbol and one analogue level sensor symbol.

The symbols change their graphical appearances according to the physical status and the system setup.

A TCM has 4 ports which results in that the graphic representation will be 4 groups of valve and level sensor symbols.

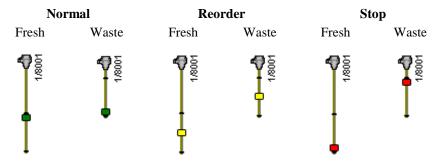
6.13.1. Valve symbol

The valve symbol shows if the valve is closed 1/8001, open 1/8001 or keyed 1/8001.

OBSERVE! In later versions the coloring of open and closed has been switched to comply with international standards as shown above.

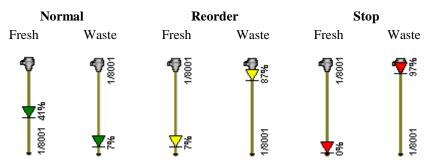
6.13.2. Discrete level sensor symbol

The discrete level sensor symbol shows both the tank type and the status of the tank.



6.13.3. Analogue level sensor symbol

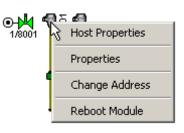
The analogue sensor symbol shows graphically in real-time the current volume of the tank.



6.13.4. TCM Setup menu

To set-up a TCM port right click either on the valve, discrete sensor or the analogue sensor symbol to open the menu. It does not matter which you use because they are the same.

Then left click on the menu item you want to change. Then there is a login window, fill in the password and the press OK button. If the password is correct the menu item you selected will open.



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6.13.4.1. Host properties

In the host properties you can add PLC code that can be used to control inputs and outputs in various logic ways. See chapter 12.

OBSERVE ! If you intend to control the pump (Sol-pin of the 5-pole connector) by PLC code, remember to uncheck "Enable automatic pump control (Sol)" for the port in question.

Port[n] properties 6.13.5.

- TankNo: Is only used by the system to Port1 properties on TCM200 8002 disable not used analogue sensor inputs from giving an alert. Tank Setting it to 0 disables the alert. TankNo: Waste oil: MaxVolume: Reorder Volume: Stop Volume: Geometry: TankArea(m^2):T Load file (.tnk): ş
- Fluid Name: This value is not necessary but should be set to the same value as in WinDB Manager. That makes support much easier.
- Fluid Part No: This value is not necessary but should be set to the same value as in WinDB Manager.

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🕴 🔲 Waste Oil

×

But is good practice to fill in	Max volume: 5000.00
properly as information.	Reorder volume: 500.00
Leave it unchecked for a fresh oil	Stop volume: 250.00
tank and check it for a waste oil tank.	Geometry TankArea(m^2): 1.000 Generate
This value is needed to give a	Or load a tank profile from file Load file (.tnk)
correct % statement for the quick	- Fluid
status window in graphic layouts	Fluid name: Motor oil Density = 1
and get the correct colouring of	Fluid partno.: M06758 used or
the analogue sensor.	Density: 1.000 is not used
This value is needed to give a	
correct % statement for the quick	Pump control (5-pole connector)
status window in graphic layouts	Enable automatic pumpe control (Sol)
and get the correct colouring of the analogue sensor	Discrete sensor (5-pole connector)
	Invert input A Invert input B
This value is needed to give a	Analogue sensor, 4-20mA (2-pole connector)
correct % statement for the quick	Time constant: 6
status window in graphic layouts and get the correct colouring of	Zero Offset: -0.080 Set zero
the analogue sensor That makes	Span Gain: 1.018 Set full span
support much easier.	Sensor range: 0.500
Here the shape of the tank is specified.	Show volume on a LED
	Address: 0 4??? (Def = 0)
This is used for tanks with the same projected area from the	Update interval: 1 Seconds (Def = 1)
bottom to the top. The area	Factory default Disable AAW Cancel OK
should be given in m ² if the	
meter range is in bar and density	
in kg/dm ³ . It is set to 0 if a tank pro	ome me is uploaded.
	is used. A tank profile file (.tnk) is a ascii
	ues (one on each line) starting a 0 and
• • •	volume of the tank. After that the tank
	s written on each step. The step values must
group Fluid should always be 1 if a t	sity of the fluid. The density parameter under tank profile file is used
	-
This value is not necessary but should	ld be set to the same value as in WinDR

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Density:	Sets the density of the fluid that is in the tank at the normal temperature. It is 1,000 for water at 20°C. A good estimation for mineral oil is 0,875 at 20°C.
Pump control:	This should normally be checked but if the pump control of a port is controlled by PLC code or script it should be unchecked to not cause a conflict.
Discrete sensor:	This setting defines how signals to the A and B inputs should be interpreted. To get highest security they should be checked and normally open sensor should be used. The reason for this is that the pump will stop if the sensor is disconnected then.
Analogue sensor	: Here the parameters for an analogue industrial 2-lead 4-20mA sensor is set.
Time(t):	Sets the time constant for the reaction of a step change of the volume. A low value will result in faster update but a more turbulent value. Higher value will give a slower update but a more stable value. Default is "6" which will give about 30 s to "full update".
Zero Offset:	This value is used to set the level reading to zero when when the tank is empty. If the 0.5bar level sensor 23417 is used a common value is "-0.075". The best and fastest way to set this is to use a keypad and fast menu code, see TCM manual.
Span Gain:	This value can be used to fine tune the amplification between sensor and TCM input, that is adjusting so that the reading is 20mA at the full meter range. If the 0.5bar level sensor 23417 is used a common value is "1.017".
Meter Range:	This value specifies the measuring range for the used level sensor. If a 23417 level sensor is used it should be set to 0.500. If a sensor with a maximum pressure of 0.1 bar is used it should be set to 0.100.
LED Address:	This is set when a LED display should be used for remote reading of the tank level. OBSERVE! If this is set, that LED will be unavailable for showing dispensing.
Update interval:	If a LED is set to show the tank volume this can be used to slow down the updating. The default is once every second and that is not needed and can cause unnessecary net load in big systems or system with many tanks. The default value is 1 and a setting of 5-10 will significantly reduce net load.
	NOTE ! – DO NOT SET IT TO 0
	NOTE ! - If this is set to something higher than 2 you must also set the LED to accept longer update interval otherwise it will blink to alert of missing updates and at above 5 it will time out to it's default screen, time or
Disable AAW:	This can be used to disable analogue level sensor alert for TCM ports that are not in use.

6.13.6. Change address

This choice is used to change the address of the TCM. First there is a login window then the "Enter New Address" window opens. Type the new address and then "Left-Click" OK button to save the setting. See OriLink® TCM manual for address recommendations.

Change Address		×
8001	OK	
8000-8999	Cancel	

6.13.7. Reboot

Selecting "Reboot module" will open a confirmation window and if <OK> button is clicked a Reboot order will be sent to the module.

No configuration or other things will be changed in the module it will just make a reboot.

This can be used instead of a power down-power up or pressing the Reset button of the module to make changes take effect faster or just make a fresh start of the LED.

It will be show in the "PNP array" as boot reason "Software".

will not affect any configurations settings in the module! Reboot ONLY!

Cancel

х

Loading OriLink® Services 7.

In an OriLink® PC based system it is possible to load system functions called Services. Some services are installed as standard when OriLink® WinTools is installed but to enable them they have licensed and to be loaded.

A service is loaded by selecting properties from the Engine Menu.

Net Load: PC-side Clients:

No of modules:

Status:

Left-Click "Properties	0	e" window	and select
	EN Orilink© Engir	ne v[1.08]PRO	×
	Port: Packet/Bytes: CS/FR/TO:	COM1: [EXE] 81:2698 0:0:0	

0%(0)

1[1]

. Online

Update PNP Array

StopEngine

Orilink@ Neighbourhood

Right-Click the "Loaded Services" window and select "New Service".

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Properties			×
Communication			
PortName DeviceName		•	Ok
COM1 \Device\Serial0		_	Cancel
Com Port (Ex. Com1:) COM1:	_		
Boost Priority (10-90) 40			
Disable Module Status Engine Disable Broadcast Server Disable 'FRAME_PNP' eg OldTyp Disable Client Timeouts	e		
Loaded Services			
Service Identity	Filename	Info	
	Delete Properties Add new service		

Standard services installed by the installation of OriLink® WinTools are Clock Service (Clock.dll), WinDB Service (WinDB.dll), Script Service (Script.dll), Messaging Service (Messagin.dll and DBDock Service (DBDockS.dll).

7.1. Time synchronisation (clock.dll Basic and Professional)

If it is desired to use the PC clock as master clock in the OriLink® system, the service clock.dll should be loaded.

The Clock service does not need licenseing.

Before loading it all clock modules (CM part number 23 405) must be removed from Printer and LED modules. If a LED module has a clock chip/module this is shown by that the (:) between hours and minutes is flashing. If the LED has a soldered clock chip (Dallas DS1603) disable it by unsolder it or cut the four copper traces on the PCB.

NOTE! There can be only one clock source in the system!

If the PC running OriLink® WinTools is connected to a network and it synchronises time to the network the OriLink® system will also be time synchronised to the network.

7.1.1. Loading the Clock Service

Left-Click the "Engine" window and select "Properties".

EN Orilink© Engin	e v[1.08]PRO 🗵		
Port: Packet/Bytes: CS/FB/TD:	acket/Bytes: 81:2698			
Net Load: PC-side Clients:	0:0:0 0%(0) 1 [1]	Update PNP Array Orilink© Neighbourhood		
No of modules: Status:	4 Online	StopEngine		
		Properties		

Right-Click the "Loaded Services" window and select "Add new Service".

operties			
Communication			
PortName DeviceName COM1 \Device\Serial0			Ok
			Cancel
		<u>•</u>	
	DM1:		
Boost Priority (10-90) 4)		
Disable Module Status Eng	ine		
 Disable Didadcast Server Disable 'FRAME_PNP' eg (Disable Client Timeouts 	OldType		
Loaded Services			
Service Identity	Filename	Info	
	Delete		
	Properties		
	Add new servi	:e	
	.0		

Select a Service dll and Left- Click Open-button.

Select service	2 file		<u>? ×</u>
Look in: 🔀	Orilink	- + 1	r 🖪 🕈
Receipt Run WinDB Mai brand.dll ComP5.dll	-		
File <u>n</u> ame:	clock.dll		Deen
Files of type:	Service files (.dll) (*.dll,*.svr)	•	Cancel

The result will be something like this. Left-Click the OK-button.

perties					
Communication					
PortName DeviceNam					Ok
COM1 \Device\Se	rial0				Cancel
				-	
Com Port (Ex. Com1:)	COM1:				
Boost Priority (10-90)	40				
Disable Module Statu: Disable Broadcast Se Disable 'FRAME_PNF Disable Client Timeou	ver ′eg OldTyp	e			
Loaded Services					
Service Identity		Filename		fo	
Onlink® Clock Module 1.	09	clock.dl	0	19E 000	10
1					

Shut down and then restart the engine.

Check the Engine.log file to verify that the Clock Service is started properly.

7.2. PC as database (WinDB.dll only Professional)

By loading the service WinDB.dll a Microsoft Access database on the PC can be used instead of the database in a Printer module. If a database on a PC is used the number of users, fluid grades, stored transactions, etc is almost infinite (size of hard disk and limitations of MS ACCESS is the limit). It also gives the possibility to have multiple printouts with different layouts on the same or multiple printers.

The WinDB service is also needed for connections to customer mainframe systems and script handling.

The OriLink® WinTools software must be professional version to be able to use WinDB service.

7.2.1. Loading WinDB service

Right-Click the engine window and select properties.

Left-Click the "Engine" window and select "Properties".

EN	Orilink© Engin	e v[1.08]PRO 🗵
	Port: Packet/Bytes:	COM1: 81:2698	
	CS/FR/TO: Net Load: PC-side Clients:	0:0:0 0%(0) 1 [1]	Update PNP Array Orilink© Neighbourhood
	No of modules: Status:	4 Online	StopEngine
			Properties

Right-Click the "Loaded Services" window and select "Add new Service".

perties			
Communication			
PortName DeviceName COM1 \Device\Serial0			Ok
COMT Device Geliaio			Cancel
		-	
Com Port (Ex. Com1:)	v1:		
Boost Priority (10-90) 40			
Disable Module Status Engine	e		
 Disable Broadcast Server 			
 Disable Broadcast Server Disable 'FRAME_PNP' eg Old 			
 Disable Broadcast Server 			
Disable Broadcast Server Disable 'FRAME_PNP' eg Old Disable Client Timeouts .oaded Services Service Identity	dType Filename	Info	
Disable Broadcast Server Disable 'FRAME_PNP' eg Old Disable Client Timeouts Loaded Services	dТуре	Info 019E0000	
Disable Broadcast Server Disable 'FRAME_PNP' eg Old Disable Client Timeouts .oaded Services Service Identity	dType Filename		
Disable Broadcast Server Disable 'FRAME_PNP' eg Old Disable Client Timeouts .oaded Services Service Identity	dType Filename clock.dll		

Select WinDB.dll and Left- Click Open-button.

Select service file	×
Look jn: 🔁 Orilink 💽 🖛 🖻 🌴 📰 -	
Constant Co	
File name: WinDB dll Files of type: Service files (dl) (".dl)", swi) Cancel]

Shut down and then restart the engine.

Check the Engine.log and WinDB.log files to verify that the service is started properly.

The result will be something like this. Left-click the OK-button.

operties					
Communicat	on				
PortName	DeviceName			•	Ok
COM1	\Device\Seri	alO			Cancel
Disable Disable Disable	v (10-90) Module Status I Broadcast Serv FRAME_PNP' Dient Timeouts	er	8		
Loaded Serv	ices				
Service Ide			Filename	Info	
	ick Module 1.0 ndowsDB 1.07		clock.dl WinDB.dll	019E00 01AF00	

7.2.2. Set-up a dispense point to use PC database

Open the OriLink® Neighbourhood and "Right-Click" the desired reel icon and select properties.

First there is a login window, fill in the password and the press OK button.

Select the things you want to validate external. Right column of Mask check boxes

Then set DB Address to 2999. The address of the PC database is hard coded to 2999.

"Left-Click" the OK button to save the changes. Repeat this for all reels that should use the PC as database.

7.3. Script Service (Script.dll only Professional) part number 23475

The Script service has to be licensed and can be used for total customisation of the dispense logistics and to do that it has to be combined with a script set placed in the C:\Orilink\CSL folder. The script set files have the extension .csl. This is how it looks when Script service is loaded.

See the Script service manual



The Messaging service has to be licensed and can be used to send tank status information in several ways.

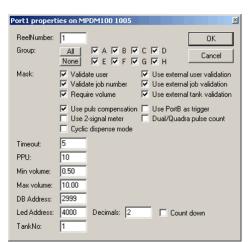
This is how it looks when the Messaging service is loaded.

When you first load the service it shows it's information window that looks like this.

The information window shows messaging activities. It does not need to be show for the service to work so it can be closed.

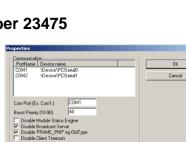
See the Messaging service manual for detailed information.

iLink® Messaging		
	System:	Running
Email		TankProbe SOAP -
Guarded tanks:	0	Check intervall: 0
Messages sent:	0	Next check in: 0
Successful / Failed:	0/0	System:
herk intervall:	1440	TankProbe MySQL
the state of the s		System:



Consuicibility Pethlame Device name COM1 UDevice/PCISerial0 COM2 UDevice/PCISerial1		Ok. Cancel
Com Port (Ex. Com1:) Boost Priority (10:90) Distable Module Statu: Engine Distable Readerst Server Distable Client Timeouts Loaded Services		
Service (dentity OnLink® Code: Service v[1.010] OnLink® VirDB Service v[1.010] OnLink® Scipt Service v[1.010]	Filename Clock.dl WinDB.dll Script.dl	Info 02CE 0000 02D 50000 02D 60000

	Cancel
Filename	Info
Clock.dll	02CE0000
	02D 30000 02D 60000
	50750000



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Host Properties Properties Change Åddress

7.5. DbDocking Service (DbDockS.dll only Professional) part number 23477

In OriLink® WinTools R6 or later there is a new loadable Service called DBDockS included.

This service can be used to automatically detect connected printer modules and download all transactions that have not been downloaded before.

When the service downloads transactions it inserts them into the standard OriLink® access database.

Then these transactions can be used in WinDB Manager standard reports or handled through MSExcel, MSAccess or any other ODBC compatible spreadsheet program.

It is recommended to set up the printer module tanks according to created PC database tanks before making dispenses that are stored in the printer module.

To be able to load the service there must be a License.dat file that is validated for this service.

To load the DBDockS Service

Right-Click the engine window.

EN Orilink© Engin	e v[1.08	3]PRO 🔟
Port: Packet/Bytes:	COM1: [81:2698	
CS/FR/TO: Net Load: PC-side Clients:	0:0:0 0%(0) 1 [1]	Update PNP Array Orilink© Neighbourhood
No of modules: Status:	4 Online	StopEngine
		Properties

PortName DeviceNar COM1 Device\S			Ok
			Cancel
		-1	
Com Port (Ex. Com1:)	COM1:		
Boost Priority (10-90)	40		
Disable Module Statu			
Disable Module Statu	IS Engine		
Disable Broadcast Se	aver		
 Disable Broadcast Se Disable 'FRAME_PNI 	aver P'eg OldType		
Disable Broadcast Se	aver P'eg OldType		
Disable Broadcast Se Disable 'FRAME_PNI Disable 'FRAME_PNI Disable Client Timeou oaded Services Service Identity	arver P'eg OldType As Filename		
Disable Broadcast Se Disable 'FRAME_PNI Disable Client Timeou .oaded Services Service Identity Onlink® Clock Module 1	erver P'eg OldType /ts Filename .09 clock.dl	019E	
Disable Broadcast Se Disable 'FRAME_PNI Disable 'FRAME_PNI Disable Client Timeou oaded Services Service Identity	erver P'eg OldType /ts Filename .09 clock.dl		
Disable Broadcast Se Disable 'FRAME_PNI Disable Client Timeou .oaded Services Service Identity Onlink® Clock Module 1	rver P' eg OldType //s Filename .09 clock.dl	019E	

Left-Click the OK-button.

Then select properties, Add new service.

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Select the DBDockS.dll file and left-click the Open-button.

Look jr: Dilink VinDB.dll Concept WinDB.dll WinDB Manager VinDB Manager Concept Concep	Select service	e file			? ×
Run WinDB Manager Brand.dll ComPS.dll	Look in: 障	Orilink	- + 1	d 🔁	
	Run WinDB Mar brand.dll clock.dll	nager			
File name: DBDockS.dll Files of type: Service files (.dll (".dl/"svr)) ▼ Cancel	_			<u> </u>	

Shut down and then restart the engine.

Check the Engine.log and DBDockS.log files to verify that the service is started properly.

PortName DeviceName		•	Ok
COM1 \Device\Serial0			Cancel
		-	
Com Port (Ex. Com1:) COM1:			
Boost Priority (10-90) 40	_		
Disable Module Status Engine			
Disable Broadcast Server	e		
 Disable Broadcast Server Disable 'FRAME_PNP' eg OldTyp Disable Client Timeouts 	e		
 Disable Broadcast Server Disable 'FRAME_PNP' eg OldTyp 	e Filename	Info	

8. Using the WinDB Manager software.

The OriLink® WinDB Manager is a software tool for administration of the OriLink® PC database.

OriLink® WinDB manager is dependent of that MDAC or later and MSJET are properly installed on the PC and that the ODBC key "OriLinkWinDB" is properly set.

8.1. OBSERVE !

The language in WinDb Manager is controlled by the language file C:\Orilink\Lang.lan. Id can easily be modified to support different languages like,

Languages for countries

Languages for parts of a country

Special languages for a specific system

The OriLink® has several tables and columns in each table and they all have names associated with specific parameters needed for fluid filling systems.

But to make a system for a specific need both the language file and the use of the database can be altered.

If it has been altered this manual may not match your system in details but the structure is still valid.

8.2. Start

Click Start button (lower left corner of screen)

Choose Programs

Choose OriLink

Click OriLinkWinDB Manager

A login window will appear. The user will show the currently logged in user. Type the password 1111 (Default) and click "OK" button. The WinDB Manager starts.

The program follows a standard windows application.

All task windows contain a <REFRESH> button. This button is used to update the window with the current values in the database. This is needed because the database is multi user and can be altered by a dispense or some other OriLink® activity.

8.3. Changing user password

Editing the [DBManager] section of the orilink.ini file can change some basic things. This section looks like this.

[DBManager] AllowSizing=0 Password=1111 ManagePassword=44232413

OBSERVE! The ManagePassword cannot be edited since is encrypted. This must be changed from within WinDb Manager. If it has been forgotten, see chapter "8.3.3 Changing Management password", below.

8.3.1. Chose if the main window should be sizable or not

Edit the AllowSizing= line.

AllowSizing=0

The install default, will prevent the main window from maximizing (Windows 8 and 10) and from manual resizing.

AllowSizing=1 Will allow resizing of the main window.

OBSERVE ! WinDb Manager is a multi doc application so sub windows are not linked to the main window. This means that there is no need to have a big main window or even have it open at all.

8.3.2. Changing user password

Edit the *Password*= line.

Password=2323

Will give the password 2323

8.3.3. Changing management password

ManagePassword= string defines the management password for the management menu.

This is encrypted so it can only be set or modified from the management menu item "Administrator".



When clicked the password change form comes up. Type in the desired password and then press <OK> to save it.

Change administrator password X Password Cancel

If you have forgotten your password just erase the whole "ManagePassword=" and then login without password. Then you can set a new password.

8.3.4. How to disable the login form.

With a empty password "Password=" line and with the "ManagePassword=" line erased the login form will not be shown.

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8.4. View Menu

In the view menu there are two ways to view stored dispenses. It is only possible to view the transactions not edit or delete them.

8.4.1. Transaction and Transaction table

This gives the possibility to view all information stored for a single transaction. The transactions are shown in the order "latest first".

Transaction table shows parameters that are generally most interesting.

				Completed transac	ctions						
	Trans. No Date	WO number	Fluid name	Part number	Quantity	Unit	Reel num	Sphere	Stop code	Operator	
•	165 2016-02-05 11:48:2	7 CDM	Fluid 1	Fluid 1	4,00	L	1	2100	0		
	164 2016-02-05 11:47:2	6 CDM	Fluid 1	Fluid 1	4,00	L	1	2100	0		
	163 2016-02-05 11:46:2) CDM	Fluid 1	Fluid 1	4,00	L	1	2100	0		
Ī	162 2016-02-05 11:45:2	5 CDM	Fluid 1	Fluid 1	4,00	L	1	2100	0		
T	161 2016-02-05 11:45:0	B CDM	Fluid 1	Fluid 1	4,00	L	1	2100	0		
I	160 2016-02-05 11:43:2) CDM	Fluid 1	Fluid 1	4,00	L	1	2100	0		
Ī	159 2016-02-05 11:42:2	CDM	Fluid 1	Fluid 1	4,00	L	1	2100	0		
ľ	158 2016-02-05 11:41:2	2 CDM	Fluid 1	Fluid 1	4,00	L	1	2100	0		
ľ	157 2016-02-05 11:40:2	3 CDM	Fluid 1	Fluid 1	4,00	L	1	2100	0		
	156 2016-02-05 11:39:2	1 CDM	Fluid 1	Fluid 1	4.00		1	2100	0		

Transaction shows all parameters stored for a transaction.

Stop code

Shows how the dispense was stopped.

- 0 = Requested volume is reached
- 1 = Manual stop from Keypad, Neighbourhood or Script
- 2 = Time-Out
- 3 =Short circuit
- 4 = By p4b, for example stop button
- 5 = Requested volume is 0 or negative

Transaction		×
Transaction number	165	
WO number	CDM	
Date	2016-02-05 11:48:27	
Fluid name	Fluid 1	
Part number	Fluid 1	
Requested quantity	4,00	L
Dispensed quantity	4,00	L
Operator		
Reel number	1	
Sphere no.	2100	
Stop code	0	
Over run	0	
Fluid number	1	
Employee number		
Extra		
Refresh	Close II I Recon	d: 1 🕨 🕨 🗍

Over run

Shows how many pulses counted after that the stop order has been given.

Generally the "Over run" is,

- Low for low viscous fluids, low flow rates and fast direct operated valves.
- High for high viscous fluids, high flow rates and slower pilot operated valves.

If the parameter "Use pulse compensation" is checked for a dispense point, the dispense point continuously tries to adapt to the dispense scenario to minimize the "over run".

If one or some dispense points for the same fluid has much higher "Over run" than the others it can depend on some dirt in the valve, air in the pipes or dirt in the meter.

8.4.2. Operator details

Show all parameters except the PIN for the current operators. The operators are shown in alphabetic order.

Users by Operator					
	Operator name	Employee number	Access rights	Extended employee	
•	Also Starring	6666	ABCDEFGH	6A	
	Any One	81	ABCDEFGH		
	Co Starring	66	ABCDEFGH		
	Guest Starring	12	ABCDEFGH		
	Preset Nouser	7777	ABCDEFGH		
	Remote Tester	8888	ABCDEFGH		
	Some One	31	ABCDEFGH		
	Timed Scedule	9999	ABCDEFGH		

8.4.3. Tank Stock update history

Shows manually added or removed volumes by the Management-Tanks menu or by tank graphics in Neighbourhood or a layout.

÷	Tank Stock update history					
	Tank Stock update history by date					
	Tank Number	Date	Volume added	Volume removed	New stock	
►	2	2016-02-09 18:49:21	500,00	0,00	2260,00	
	2	2016-02-09 18:49:06	0,00	-1000,00	1760,00	
<u> </u>	Refresh	Close I A Rei	cord: 1		► ►	

OBSERVE ! Tank content changes by an analogue sensor cannot be recorded so it is not shown here.

8.4.4. Tank Message history

Show the history of tank status messages sent by the OriLink® Messaging Service.

Tank message history							
Message history by date							
No.	Tank Number	Date	Cause	Method	"Address"	Status	
Refres	h Clos	e 14 4 Re				F	

8.4.5. Db Docking Service transaction table

Shows transactions downloaded from a Printer module by the OriLink® Db Docking Service. It can be used to see from which printer module it comes and what the original printer module transactions number it has.

÷	Db Docking Service transaction table					
	Db Docking Service transactions					
	Transaction number	PM Transaction number	PM Address			
•	165	33	2100 -			
	164	32	2100			
	163	31	2100			
	162	30	2100			
	161	29	2100			
	160	28	2100			
	159	27	2100			
	158	26	2100			
	157	25	2100			
	156	24	2100 💌			
<u>(</u>	Refresh	H A Record: 1	► H			

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8.5. Managing Menu

The managing menu is used for adding, removing or editing users, job numbers, or tanks. It is also used for updating tank levels.

8.5.1. WO- numbers

This can be used to add work order numbers or other object identifiers that should be allowed to dispense on. It can be up to 16 alphanumeric characters long.

If the printer module is equipped with a FLASH chip (yellow label) the use of wild card characters are possible. This feature can be used to make the system to only accept work order numbers with a certain layout.

с і	Manage work order numbers					
Work order number 123456						
		J	obs on this work order			
	Job	Part number	Allocated guantity	Dispensed quantity	Status	
			0,000	0,000	Open	
Edit WO-number Add WO-number Delete WO-number						
	R	efresh	Close	Record: 1	F	

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The wild card feature supports three different wildcard placeholders.

?	Accepts any alphanumeric character in this position
---	---

Accepts any numeric character in this position

@ Accepts any alphabetic character in this position

Below there are some samples of how to use wildcards.

ABC###	results in ABC123 valid but not ABC1234 or ABC12D
???????	7 signs must be typed
SE@@@@	6 characters is OK as long as it the 2 first are SE
#### #####	4 or 5 figures are OK
#####.##	for example 6 digit work order a dot followed by a 2 digit job

OBSERVE! The "Jobs on this work order" table can only be used by either R10 version in both PC and module software, see WinDb.ini, or a scripted dispense logistics, see OriLink® Script Service.

8.5.2. Operators

This is used to setup users that are allowed to dispense.

User name

Can be up to 16 alphanumeric characters long.

PIN code

Can be up to 4 characters. If more characters are input a warning will be shown.

In R10RC5 or later it can be up to 16 characters but it still gives warning above 4 to remind of that you may need newer chip versions.

Employee number

Can be 1-65535 numeric. It cannot have leading zeros, spaces or letters.

If an employee "number" / operator Id must have letters, leading zeros or spaces the parameter "Extended employee number" can be used to get that.

To use that first give the operator a unique Employee number between 1 and 65535. Then add the wanted string to "Extended Employee number".

For example like this.

Then OriLink[®] will use the Employee number for the internal dispense handling but substitute it with the Extended employee number when storing the transaction and sending it to a DMS system by a DMS system driver.

Operator name	Also Starring				
PIN code	6666				
Employee number	6666				
Access rights	ABCDEFGH				
Extended employee no.					
L					
Edit operator	Add operator Delete operator				
Refresh	Close				
H Record: 1	► H				
Manage Operators	<u>×</u>				
Operator name	Also Starring 💌				
PIN code	66666				
Employee number	6666				
Access rights	ABCDEFGH				
Extended employee no.					
Observe ! You have typed a	pin code with more than four characters. the Script service with a script set that				
To use that you need to use supports it	the Script service with a script set that				
OK	Cancel				
User PIN warning, more	e than 4 characters				
Manage Operators	×				
Operator name	Also Starring 💌				
PIN code	6666				
Employee number	66666				
Access rights	ABCDEFGH				
Extended employee no.					
Warning I A "Employee number" outside the possible range (1-65535) has been typed. Adjust it to fit the range and read OriLink® WinTools manual on how to use "Extended Emp. No.".					
has been typed. Adjust it to manual on how to use "Externational and the manual on how to use the manual on how to use the manual of the manua	fit the range and read UriLink♥ ₩inTools nded Emp. No.".				
) DK	Cancel				
User ID warning, abov	e 65535				
Manage Operators Operator name	×				
	Also Starring				
PIN code	6666				
Employee number	6666				
Access rights	ABCDEFGH				
Extended employee no.	66666				
Edit operator	Add operator Delete operator				
Refresh	Close				
H A Record 1					

number

Rights

Can be used to divide users and dispense points into groups. Any combinations of A, B, C, D, E, F, G and H can be used such as AB, ACH, DG and so on.

It is used in combination with the dispense point property "Group"

8.5.3. Tanks

This is used to setup PC-tanks.

Scroll to through the tanks using the arrow buttons in the bottom.

To modify a tank left-click the Modify tank button. Edit the values you want and then left-click the OK-button.

"Fluid name" and "Part number"

Can be up to 16 alphanumeric characters long.

Tank number

Are the parameter that is used to link a dispense point to the tank

Supplier ID

Are used to link a supplier to the tank. If the arrow to the right is clicked a list of existing suppliers to select from appears.

Tank scale

Are used to set a scaling between dispense units and a tank unit. For example: Dispense unit grams with the Tank scale 0.001 gives tank unit in kilos.

Tank type (000-111)

Tells the system what type of tank it is and what kind of sensor(s) that is connected to it. It must be set it cannot be blank. If the mouse pointer is hovered over it, possible settings are shown.

In R10 you will get the same information by clicking on the label.

0XX = Fresh oil (Default) 1XX = Waste oil

X0X = No discrete sensor X1X = Discrete sensor (1 or 2-levels)

XX0 = No analogue sensor

XX1 = Analogue sensor

Numeric stock update (Check box)

Default is checked and the stock will be numerically updated based on made dispenses and by that show what the current stock is.

If it is unchecked the stock will not be numerically updated and because of that not show the current stock. If an analogue sensor is uses (Tank type ??1) it will always be unchecked since then the analogue sensor updates the stock.

TCM Address (8???) / TCM Port (1-4)

If there is a TCM module with level sensor(s) and/or a pump control these must be set accordingly.

Valve delay

can be used to keep a pump pressurised a certain time after the last dispense point connected to this tank has closed. It can be used to avoid unnecessary delay time in a busy workshop.

To have the best and safest solution use one TCM Port with level sensor(s) and a pump control for each Tank/Pump.

It is possible to have one air valve to all Tanks/Pumps then set the TCM Address and TCM Port to the same value for all tanks. It is then of course not possible to use level sensors and the TCM port Input A and B must be set up correctly.

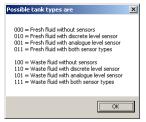
The Current Stock has different looks/handling depending on if the tank is set to use an analogue level sensor or not.

Recipient list

If the Messaging service is used here is where the recipients are managed.

Reset status

The Messaging service can be set to send reminders but that can easily result in "spamming". So if reminders are disabled this is a way to manually issue a reminder mail. Select the tank you want to send a reminder for and then click <Reset status> and on the next check a reminder will be sent.



DI	LINK®

Motor of

M06758

5000.00

011

In

Add tank

Close

Tank scale 🟳 🗙

5 000,00

Tank unit 🛽

TCM Port (1 - 4) 1

Delete tank

► H

(Seconds 0-255)

Numeric stock updat

🗧 Tank Ma Eluid name

Part number

Tank numbe

Supplier ID

Re-order vol

Stop volume

Current stock

/alve delay

Tank type (000 - 111)

Tank module setting TCM Address (8???)

Tank messaging set

Modify tank

Refresh

Message status

I I Done

Di

Without an analogue level sensor.

The current stock can be updated in two different ways.

Left-click in the white value box and just edit it or by left-click the "Update Stock" button.

When the "Update Stock" button is left-clicked a new form is shown.

Fill in the volume change and the form automatically adds it to the current stock.

Use a - sign to reduce the current stock. Left-click the OK-button to update the database.

If a Volume change is so large that the sum will be over the set tank size a warning message will appear and the new stock will be set to the size of the tank.

This can be used as a way to quickly set the new stock when replacing a barrel or IPC container.

With an analogue level sensor.

If there is an analogue level sensor the current stock is automatically updated by this sensor. Because of this the possibility to manually edit the current stock is disabled and there is no "Update Stock" button.

Observe! If an analogue level sensor is used the "Tank type" value should be set to XX1.

ORILINK® <

🖶 Tank Management		×	
Fluid name	Motor oil		
Part number	M06758		
Tank number	1		
Supplier ID	4561W	•	
Ta	nk scale 🟳	× 1,000	
Max volume	5000,00	5 000,00	
Re-order volume	500,00	500,00	
Stop volume	250,00	250,00	
Current stock	3700,00	Update Stock	
Dispense unit	L	Tank unit	
Tank type (000 - 111)	000 Vumeric stock update		
Tank module settings			
TCM Address (8???)		TCM Port (1 - 4)	
Valve delay	0	(Seconds 0-255)	
Tank messaging settings			
		Recipient list	
Message status		Reset status	
Cancel			

-Add or remove volume	×
Current stock	500,00
Volume Change	100,50
New Stock	600,5
ОК	Cancel



🥌 Tank Management	x
Fluid name	Motor oil
Part number	M06758
Tank number	1
Supplier ID	4561W
Ta	ank scale + × 1,000 -
Max volume	5000,00 5 000,00
Re-order volume	500,00 500,00
Stop volume	250,00 250,00
Current stock	3700,00 3700,00
Dispense unit	L Tank unit L
Tank type (000 - 111)	001 🔲 Numeric stock update
Tank module settings	
TCM Address (8???)	8001 TCM Port (1 - 4) 1
Valve delay	0 (Seconds 0-255)
Tank messaging settings	
	Recipient list
Message status	Reset status
С. ОК	Cancel
Edit record	Cancel

8.5.4. Printing

Here receipts can a printing template be selected and directed to 1 or more printers (print modules). The receipts can also have different layouts depending of dispense point and/or printer.

First copy and rename a suitable receipt layout file in C:\Orilink\Reciept\PC. Then edit it to how you want it to look like, see ReadMePC.txt.

Remember that different printer may need different control characters to create effects like thick characters, different fonts, loading stored pictures, generate barcodes,....., etc. Exactly what is set in the layout will be sent to the printer.

Print ID

This parameter is auto generated to give a unique ID for each print and cannot be edited. This makes it possible to have multiple print outs for the same dispense point to the same or different printer(s) and with the same or different layouts.

Configur Print ID Reel numb

Sohere numbe

Print layout file

Printer module addr

H dit record: 1

Windows Printing

Open the Printing utility and Click the <Add> button, or the <Edit> button if you want to edit a present print out. Fill in the information and click on <Update> button. Do the same for all desired dispense points. Here to a Printer module with address 2003.

54

2003

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Configure printing	<u>×</u>
Print ID	1
Reel number	54
Sphere number	5
Print layout file	C:\Orilink\Reciept\PC\Laser_WinDB.txt
Printer module address	\\SomePrintServer\HP-LJ4
Windows Printing	Г
E dit printout	Add printout Delete printout
Refresh	Close
Record: 1	► H

Here to a printer on the local PC using the Windows printing queue.

🖵 Configure printing	×
Print ID	1
Reel number	54
Sphere number	5
Print layout file	C:\Orilink\Reciept\PC\Laser_WinDB.txt
Printer module address	HP-LaserJet6
Windows Printing	v
ОК	Cancel
Edit record: 1	

To a local parallell or serial port:.

Configure printing	×
Print ID	1
Reel number	54
Sphere number	5
Print layout file	C:\Onlink\Reciept\PC\Laser_WinDB.txt
Printer module address	LPT1:
Windows Printing	
OK	Cancel
Edit record: 1	

To a print queue on a print server in the network.

C:\Orilink\Reciept\PC\SP700 WinDB.txt

•

Configure printing	X
Print ID	1
Reel number	54
Sphere number	5
Print layout file	C:\Orilink\Reciept\PC\Laser_WinDB.txt
Printer module address	\\SomePrintServer\HP-LJ4
Windows Printing	
Li OK	Cancel

If a printer connected a local LPT or COM port is going to be used it must be PCL compatible or similar it cannot be a GDI printer (Windows printer).

If it is a GDI or USB printer the local windows printing queue for the printer must be used and the "Windows Printing" must be checked

8.5.5. Preset Codes

To use this the OriLink® Script service (p/n 23475)must be used. When OriLink® is installed a general preset script set is installed and this uses the settings done here. The script files can be found in the C:\Orilink\CSL folder and the configuration file for it is C:\Orilink\Presets.ini

 Preset Code
 SHG123

 Dispenses for this Preset Code

 1
 1

 3.000
 2

 1
 1

 2
 2

 5.000
 2

 Test preset

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- 🗆 ×

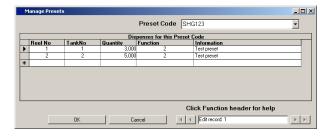
Basically it is used to start one or more dispense points by a single input code either

manually or by some reader but it can be used for much more advanced things if needed.

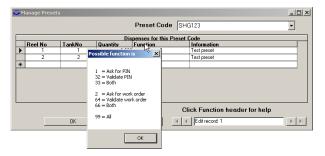
Important to think of is that there must be an unique value for each row otherwise the system cannot separate them.

If either <Edit Code> or <Add Code> is pressed the form will change to modification mode.

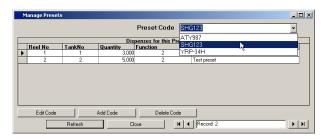
And as in any other database tool you have to click on another row than the one you are editing/adding to save what you have done.



Function is used to tell the system what verification(s) you want and by clicking the "Function" header you will see a list of possible settings.



By typing the first letter(s) of a Preset code it is searched and quickly found.



8.5.6. Suppliers

Supplier database can be used for adding a supplier to a tank. First add the supplier and give it some unique Supplier ID if they not already have one.

Then select it from the Supplier list in tank configuration, see "7.5.3 Tanks"

🦲 Manage Suppliers	×
Supplier ID	4561W
Company name	Oil Company Ltd.
Address	Oil road 4
Zip code	234 56
City	Lube town
Contact name	Also Starring
Phone number	55-789012
E-mail	alst@oilcompany.com
Edit Supplier	Add Supplier Delete Supplier
Refresh	

8.5.7. Administrator

Here a Management/Administration password can be added, replaced or removed.

This password is encrypted so save it somewhere safe so it can be found if it is forgotten.

It is not possible to retrieve it but it can be reset to "no password"

8.6. Report Menu

The report menu of WinDB Manager has several sub menus and in each of them there is reports or sub menus.

For some of the reports one or more input window will appear.

8.6.1. Input WO-number example.

Wildcards could be used when typing a WO-number.

The wildcard sign % can be used as follows,

203164% will give a report for all WO's that begins with 203164.

%32% will give a report for all WO's that contains 32

8.6.2. Input dates example

Date it should be typed in the format YYYY-MM-DD for example 2003-02-29. For the "Start time" input the software assumes time to be 00.00.00 and for the "End time" input it assumes 23.59.59.

The default report period is the last 7 days, 00:00:00 day one to 23:59:59 day seven.

If the same date is typed for both values the report will cover that date.

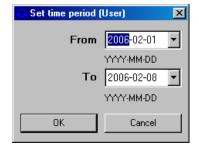
The dates can also be changed by Left-Click on the "drop-down" button to the right of the date. Then a calendar will appear.

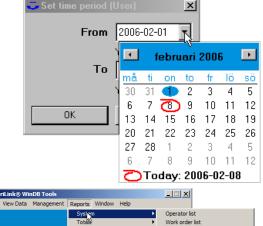
8.6.3. System reports

Here general reports over the system can be found.

Change administrator password X Password Cancel









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8.6.4. Totals

Here you find several different reports on fluid dispenses done. They are grouped in two categories, Accumulated and By Transaction.

Accumulated report shows the sum of dispensed volumes on a work order, reel, part number,etc.

By transaction shows each dispensed volume on a work order, reel, part number.....etc.

8.6.5. Periodical

Her reports based on a selectable time period is found. A selected period will be kept until it is changed or the WinDb Manager is restarted. This makes it possible to quickly check transactions for a period in different ways. The WinDb Manager start up period is "the last 7 days".

Exactly as for total reports this is also brouped in Accumulatyed and By Transaction

Accumulated report shows the sum of dispensed volumes on a work order, reel, part number,etc.

By transaction shows each dispensed volume on a work order, reel, part number.....etc.



Reports Window

System

Fluid Usa Combine By Transad

WO(s)

By Operators By Fluid Grade By Reel(s) By Sphere(s)



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- 🗆 ×

8.6.6. Combined

Here reports based on a combinations of selectable parameters is found. A selected period will be kept until it is changed or the WinDb Manager is restarted.

The WinDb Manager start up period is "the last 7 days".

Exactly as for total and periodic reports this is also grouped in Accumulated and By Transaction reports.

Reports

Syste Totals

Fluid U

Oril ink® WinDB To

Accumulated report shows the sum of dispensed volumes on a work order, reel, part number,etc.

The "By WOs where filled sum is over limit" and "By WOs where frequency is over the limit" can be used for leakage or over consumption control

By transaction shows each dispensed volume on a work order, reel, part number.....etc.

The "By WOs with dispenses over the limit" can be used for leakage or over consumption control



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By WO(s)

By WOs with dis

8.7. Window Menu

The windows menu can be used to arrange the different utilities windows. Not in use in this version.

8.8. Help Menu

In this menu an online manual will be placed. In this release it is not implemented.

8.9. Close the program

The program is closed as normal Windows software. Through the Archive menu or the cross in the upper right corner.

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9. HWFlash tool (HWFlash.exe)

The hardware flash tool (HWFlash.exe) replaces all other previous tools for programming and resetting the hardware modules.

The HWFlash tool can be found in the OriLink® main folder, default is C:\Orilink. It is started by double clicking the HWFlash.exe file. It supports all types of modules with OTP or Flash chips.

Orilink© HWFlash v[1.01]

9.1. How to change the system language (R7 or later)

First start the OriLink® engine if it is not already running. Then start the HWFlash tool. The default language for booth OriLink® WinTools and modules is English.

Address	Type	Current Version	New Version	Current Language	New Language
1005	MPDM100	MPDM10009		English	
2005	PM100	PM10007		English	
3005	KP100	KP10009		English	
1005	LED101	LED10103		English	

To change it select the new language from the language selector in the lower left corner of the HWFlash main window.

Click OK button to accept the language change.

HWFlash	×
Do you want to s	ave the changes?
<u> </u>	Cancel

Then click the Rescan button.

Now click the Flash button, The High speed check box can be checked if there are only flash modules in the system. Then click the OK button to accept to flash the modules.

Do you wish to continue?
You are about to flash new software and/or language
Cancel

1005 2005 3005 4005	MPDM100 PM100 KP100 LED101	MPDM10009 PM10007 KP10009 LED10103		English English English English	
- - English	T	10001 V F High	1Speed Auto Resolve	Rescan Fi	LASH Close
Lithuaniar Norwegia Polish Russian Slovak Spanish Swedish				The second secon	<u></u>
Address 1005 2005 3005 4005 8001	Type MPDM100 PM100 kP100 LED101 TCM100	Current Version MPDM10009 PM10007 kP10009 LED10103 TCM10002	New Version	Current Language English English English English English	

The flash procedure starts. Modules marked with yellow is going to be flashed, module marked with red is flashed and modules marked with green have been flashed.



Current Lang

Address	Type	Current Version	New Version	Current Language	New Language
.005	MPDM100	MPDM10009		English	Swedish
2005	PM100	PM10007		English	Swedish
005	KP100	KP10009		English	Swedish
1005	LED101	LED10103		English	Swedish
3001	TCM100	TCM10002		English	Swedish
Programmi	ng language -	a[3005] t[KP100] [[Swedish]			
-		a(3005) ([KP100] [[Swedish]			
-					
ШП					
ШП					LASH

Orilink© HWFlash v[1.01]

Orilink© HWFlash v[1.01]

Address Type

Current W PDM10009

When all modules are marked green the flashing process is finished.

Now first do a Rescan from the engine menu "UpdatePNP array" item. Then click the Rescan button in HWFlash window.

Now the system language is Swedish.

ime Left	0.00						
		010001 💌	HighSpeed	j Auto Resolve	Rescan	FLASH	Close
link© H	WFlash v[1.	01]					
Address 005 005 005 005 005 005 001	Type MPDM100 PM100 KP100 LED101 TCM100	Current MPDM10009 PM10007 KP10009 LED10103 TCM10002	Version	New Version	Current Lang. Swedish Swedish Swedish Swedish Swedish	iage New Lani	guage

Observe ! The language changing currently only supports hardware modules, the engine and WinDB Manager. It does not support the graphic representation of the modules in the OriLink® Neighbourhood (HWMon2).

9.2. How to update chip software and/or language for modules.

When the HWFlash tool is started the first thing that happens is that it looks in *C*:/*Orilink*/*Chip* folder and compare

Orilink© HWFlash v[1.01]

the chip software file versions there with the current ones in the hardware modules. If there are newer ones in the chip folder it automatically list suggested updates in the HWFlash start-up window.

The second thing that happens is that it compares the language setting of the system with the one of the current hardware modules. If any of the modules has another current language than the system it is shown as a suggested update in the HWFlash start-up window.

It can look something like this.

To make the suggested updates click the Flash button. The High speed check box can be checked if there are only flash modules in the system.

Then click the OK button to accept.



To skip a suggested language update select the empty line in the "New language" selector.

To skip a suggested chip software update select the empty line in the "New version" selector.

Address	Туре	Current Version	New Version	Current Language	New Language
005	MPDM100	MPDM10009		Polish	English
005	PM100	PM10007		French	English
105	KP100	KP10008	KP10009	English	
105	LED101	LED10102	LED10103	English	
101	TCM100	TCM10002		English	
		110001 🔽 🗆 High	Speed Auto Resolve	Rescan F	LASH Close
nglish					

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Address	Type	Current Version	New Version	Current Langua	ge New Language
005 005 005	MPDM100 PM100 KP100 LED101	MPDM10009 PM10007 KP10008 LED10102	KP10009 LED10103	Polish French English English	English
001	TCM100	TCM10002		English	French German Danish Polish Italian Dutch Spanish Slovak Norwegian Chinese Libhuanian Russian
-	VFlash v[1.0	_	ighSpeed Auto Resolve	Rescan	FLASH Close
link© H\	WFlash v[1.0	_		Rescan	
Address 005 005 005		1]		Current Languar Polish French	
link© HV Address 005 005	WFlash v[1.0 Type MPDM100 PM100	Current Version MPDM10009 PM10007	New Version	Current Langua Polish French	ge New Language

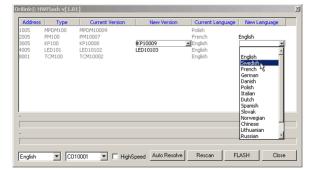
Address	Type	Current Version	New Version	Current Language	New Language
005	MPDM100	MPDM10009		Polish	
005	PM100	PM10007		French	English 🗾
005	KP100	KP10008		English	Swedish
005	LED101	LED10102	PM10007	English	
001	TCM100	TCM10002	Pm10006	English	
			0		
			1 -		
			<u> </u>]	

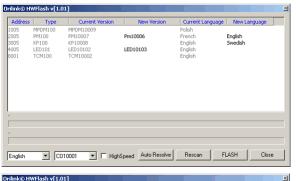
To down flash a module to an earlier software version select it from the "New version" selector.

The result will be this.

To select a unique language for a module.

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The High speed check box can be checked if there are only flash modules in the system. Then click the Flash button.

Then click the OK button to accept.

You are about to flash new software and/or language QK Cancel

When all selected modules are marked green the flash process is done.

 Address
 Type
 Current Version
 New Version
 Current Language

 1005
 MPM100
 MPM10007
 Phil0007
 Phil0006
 Prench
 English

 1005
 KENDIO
 KENDIO
 KENDIO
 Phil0007
 Phil0006
 Prench
 English

 1005
 KENDIO
 KENDIO
 KENDIO
 KENDIO
 KENDIO
 KENDIO

 1005
 KENDIO
 KENDIO
 KENDIO
 KENDIO
 KENDIO

 1005
 KENDIO
 KENDIO
 KENDIO
 KENDIO

 1005
 KENDIO
 KENDIO
 KENDIO
 KENDIO

 1005
 KENDIO
 TCMIO
 Commission
 English

Flashing - a(4005) (LEDIOI) - [1/4] Downloading CD chip

 Time Left 01:34
 Kendio
 Flashing
 Close

 COTIONOI
 IF HighSpeed
 Auto Resolve
 Resolan
 FLASH

 Address
 Type
 Current Version
 New Version
 Current Language
 New Language

 1005
 MPON100
 MPON10009
 Philo005
 French
 English

 2005
 FP1000
 FMID007
 Philo008
 English
 Swedsh

 2005
 FP1000
 FMID007
 Philo008
 English

 2005
 FP1000
 <

 Done

 Time Left 0.00

 English

 C010001

 FighlSpeed
 Auto Resolve

 Rescan
 FLASH

 Close

Now first do a Rescan from the engine menu "UpdatePNP array" item. Then click the Rescan button in HWFlash window.

Address	Type	Current Version	New Version	Current Language	New Language
005	MPDM100	MPDM10009		Polish	English
005	PM100	PM10006	PM10007	English	
005	KP100	KP10008	KP10009	Swedish	English
005	LED101	LED10103		English	
001	TCM100	TCM10002		English	
one					
one ime Left I					

If all is as it should be you are done. Close HWFlash.

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9.3. How to change a flash chip from module type to CO type.

Since all modules uses the same processor flash chip it can be moved from one module type to another but to do that it must either contain software for the target module or just communication (CO chip).

All chip our part number 23482 has CO software so they can directly be inserted in a module and then flashed to the correct software.

If you want to move the processor chip from one type of module to another type you must first convert it to CO type. You do this by re-flashing it to the same as it already is and disconnect the flashed module during flash stage 3 "downloading software". Like this

Select the same software	OrtLinkes HvVFLach v(L010) Image: Current Version New Version Current Language Address Type Current Version Current Language Doit MPCM10010 MPCM10010_L0 Single/htage Mechanics Mechanics Total Total progress Total progress English C010010 Image: Hight	
Start flashing.	CortLink@ HWHash v (1.010) Image: Correct Version New Version Currect Language New Language Address Type Currect Version Hert Hotel English DDI #ECHIDDE #ECHIDDE English	Stage 1, flashing the latest CO software
Reboot to CO		Stage 2, the boot vector is changed to the CO software and the module is then rebooted as CO.
CO software is used to receive the module software selected.	Contlink@ HWHash v (1.010) Image: Control Version New Version Current Language New Language DOI: BECHIDDED HetRelDDED English English Clear Set Clear Set Time Left 000 7616/32704 bytes flashed English C010010 Proceed Auto Resolve Rescan	Stage 3, flashing the selected module software to the module.
Disconnect the module	Flashing software X Module [MPDM100] Address Description [Error while flashing software after [3] silent retries.]	The module stops answering and after some retries HwFlash prompts for the issue and ask you to retry or cancel. Choose Cancel.
	Since the flashing process was cancelled before stage 4 was done the boot vecytor is still pointing to the CO software.	
Connect module and press Rescan	Ond. Ind.@ HWH Sash. v (1.010) Image: Control Version Image: Control Version New Version Current Language New Language PFP1 CoChep Collogits Current Language New Language PFP1 CoChep Collogits Current Language Pathing - 4(1001) (MFDM100] - [2/4] Downloading chip Module progress Time Left 000 Total progress English Collogits English Collogits	Now you have a CO chip that can be moved to other module types or be flashed to for example TCM100, PLC100 or PLC200 softwares.

9.4. How to update to flash chip technology (R7 or later).

OriLink® WinTools R7 or later is needed to be able to see and configure modules equipped with flash chip from the PC.

OriLink® WinTools R6 can easily be upgraded to R7 or R8. OriLink® WinTools R5 or earlier must be reinstalled, old database can be converted. Below is a general description. For more information or questions mail to mailto:orilink@alentec.se.

To change from OTP chip to flash chip is also easy.

First update OLWT to R7 or R8 or install R7 or R8.

Make sure that the OriLink® communication loop is ok, termination, addresses and drivers.

Reflash the language using HWFlash tool, see above "9.1 How to change the language.

Address	Type	Current Version	New Version	Current Language	New Language
005	MPDM100				
005	KP100				
005	LED101				
001	TCM100				

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NOTE! Do not use HighSpeed option in a mixed chip system!

After re-flashing the language or flashing a new language there are two ways to continue depending on the flash chips you have.

9.4.1. If the flash chip already contains module software.

Change the chips. Do not forget to power down the module before changing the chip.

Click the "Rescan" button first in "Update PNP Array" and then in HWFlash. If all is OK it is done.

9.4.2. If the flash chip comes with only CO software (part number 23482).

Change chip in one module. Do not forget to power down the module before changing the chip.

The CPU LED will flash "blink, blink,....., blink, blink,, etc.".

Click the "Rescan" button in HWFlash and the module will be detected as CO module.

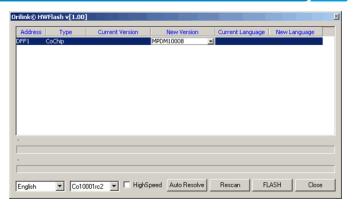
ddress	Type	Current Version	New Version	Current Language	New Language
F1 (CoChip				

Select the proper module software in the "New Version" column.

Address Type Current Version	New Version	Current Language	New Language
FF1 CoChip	<u> </u>]	
	•		
	TCM20000rc17 TCM10002rc4		
	Tcm10002rc4		
	PM10104rc4		
	Pm10103		
	PM10007rc4		
	Pm10006 MPDM10009rc11		
	MPDM10009rc11		
	LED10103rc10		
	Led10102		
	LED10005rc10		
	Led10004 KP10009rc10		
	INF10009(CIU		

Verify that the correct software is selected.





Then f	flash.
--------	--------

0	rilink© H¥	/Flash v[1.00]]				×
	Address	Туре	Current Version	New Version	Current Language	New Language	
	DFF1	CoChip		MPDM10008			
1							
I							
I							
I							
J							
	-		o] • [3/4] Downloading chi	p			
	Time Left 0						
J	English	▼ Co10	001rc2 💌 🗆 HighS	peed Auto Resolve	Rescan FL	ASH Close	

After the line has turned GREEN click the "Rescan" button.

	lash v[1.00]]			
Address	Туре	Current Version	New Version	Current Language	New Language
F1 C	oChip		MPDM10008		
ne					
ne					
one me Left 0:0		001rc2 V F HighS			ASH Close

Now all modules should be visible again.

Address	Туре	Current Version	New Version	Current Language	New Language
005 005 005 001	MPDM100 KP100 LED101 TCM100	MPDM10008		English	
Done					

Change chip in the next module. Click

the "Rescan" button HWFlash and the module will be detected as CO module.

Select the proper module software in the "New Version" column and then flash. After the line has turned GREEN click the "Rescan" button.Now all modules should be visible again.

Continue with the next module until all is done.

Click the "Rescan" button first in "Update PNP Array" and then in HWFlash. If all is OK it is done.

9.5. Set modules to production default (R7 and later)

If you have managed to destroy or mix up the setting of a module the module can be restored to factory default by using the "Autoresolve" feature in HWFlash or the command line tool Autores.exe.

This can be done within the system if no modules in the system have their address set to factory default (X000) or if the system only contains one of each type of module. The reason for this is that the module you are restoring will have it's address set to factory default which is X000 and if any other module of the same type has address set to X000 there will be a collision and the system will not work or behave strange.

Start the OriLink® engine if it is not running and wait until all modules are found.

Close WinDB Manager, Neighbourhood and custom layouts if any of them are running.

If the script service is used it must be unloaded.

It is recommended to not dispense while using the "Autoresolve" feature.

Start the HWFlash tool and then click on the Autoresolve button.

NOTE! Everything in the module will be set to default. Databases will be cleared and receipt, fast menu, reels, serial ports on keypads etc will be set to default.

The "Autoresolve" feature is started as a Command window.



Now the restoring starts, here for a keypad. During the process the Autoresolver and sometimes the module will ask for som input or show some output depending on module type. Here the autoresolver waits for you to press <ENTER> on the keypad. The keypad also shows this. Press <ENTER> on the keypad.

🔤 C:\Orilink\autores.exe
Starting autoresolverOK Press and hold the reset button on module Press CTRL°C at any time to exit
New module found, Release the button
Module: KP100 Download English to KP100 on address 3000 WaitPrograning KP100 at 3000 to English Gooocooocoocoo Initialize internal fast menu WaitOK Initialize cest startup type Initialize cest startup sequence WaitOK Restarting KP and wait for KP to Login WaitOK
Type the text 159. on the KP Wait

Next press and hold the reset button on the module until the Autoresolver tells you to Release the button.

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🛤 C:\Orilink\autores.exe	
Alentec & Orion AB Copyright® 2005 Orilink® Autoresolver Command Line Version 2.03	- Tool -
Starting autoresolverOK Press and hold the reset button on Press CIRL^C at any time to exit	module
New module found, Release the button	

Here the Autoresolver asks you to type something on the keypad and the keypad shows you what to type. Type 159. and the <ENTER> on the keypad

When it is finnished and everything went OK it looks like this. To continue with another module press and hold it's reset button and so on. The shutdown the "autoresolver" by pressing CTRL and C at the same time.

🛤 C:\Orilink\autores.exe	_ 🗆 🗵
Programing PM Done with no Errors!!!	
00000000	
Using INIFile: [C:\Orilink\orilink.ini] Current Language: [English]	
Starting autoresolverOK Press and hold the reset button on module Press CTRL^C at any time to exit	
	//

10. Error handling.

When installing computer software, configuring it and running it, problems could sometimes appear depending on how the computer is set up and what kind of other software is installed and running in it.

All OriLink® software is based on Microsoft standard components and we have tried to make it similar to any standard windows program to handle.

Depending of the operating system, administrator rights can be needed to install the software.

10.1. OriLink® general error tool

Every feature in OrilInk® creates a log file of the same name as the feature. The setting for the logging is done by the features configuration (ini) file that has the same name as the feature. The setting is based on the [Log] section of the ini file. As an example Script.ini

[Log] FileName=C:\Orilink\Logs\Script.log MaxLines=100 Flags=

In every ini file there is also a manual part that explains the different parameters at the bottom there is a list of possible Flags.

As default the features always has "." Information and "*" Error flags set and they cannot be disabled and these two characters should never be used in the Flags setting.

The additional possible flags can be used as a help to find the reason for an issue but in a fully working system the Flags parameter should always be empty, otherwise occasional error logging will be overwritten rapidly.

Since each flag set runs in its own thread, the engine or the feature in question must be restarted/reloaded after the Flags parameter has been altered to make the change active.

10.2. OriLink® basic WinTools errors

OriLink® needs four standard Microsoft components and they are DCOM, MFC6.2, MDAC and MSJET.

DCOM is as standard installed for Windows 98SE/2K/XP but must be installed for Windows 95/NT. For NT it is installed by service pack 6 and for 95 it has to be installed separately.

MFC 6.2 is installed when OriLink® WinTools are installed.

MDAC and "MSJET" are normally already installed by other software for example MSOffice, DMS programs, Spreadsheet programs,etc.

Errors during installation of OriLink® WinTools depends usually on that some of them are missing or wrongly installed.

Symptom	Cause	Remedy			
Errors during installation of	Missing or faulty DCOM or	Update the OS with latest patches. Reinstall			

PROVIDE SOLUTIONS		
OriLink® WinTools	failure of installing MFC6.2.	the OS.
 Failure to connect to OriLink® network. Engine does not find any modules. Engine does not find some modules 	Wrong Com port is used, some other software uses the same comport, faulty wiring of the OriLink® network or terminations. Some modules have software with "Old PNP" support and the support for it is disabled in the engine. OriLink® network line driver faulty on one or more modules.	 Change Com port check wiring and termination of the OriLink® network. Check that any unused OriLink® lines in PC-interface are terminated. Uncheck the Disable "Frame PNP" e.g. Old Type check box in engine properties window. Use a digital volt meter and check voltage GND-B and A-B on the OriLink® network with low level of communication. B-GND should be about 2VDC with few modules connected and lower with more modules. A-B should be about 0,5 VDC with few modules connected and slightly lower with more modules. If not replace the faulty driver, the changeable 8pin DIL chip named MAXIM MAX485E CPAxxxxx Check the engine.log file in the OriLink® folder.
Failure to start.	The database or some other files are flagged Read-Only because it has been copied from a CD.	Verify that the Read-Only flag is unchecked for all files in the OriLink® folder.
System work but randomly hangs or crashes	 Bad or distorted of OS installation. A lot of junk programs running. PC hardware error. Virus protection software not set correctly or set to scan all files combined with a to slow PC. 	 Reinstall OS Shut down and / or uninstall unnecessary software. Use a PC hardware analysing program on the PC. Set virus protection to only scan executable files or not to scan OriLink® folder. Use a faster PC.
Wrong password when trying to change something.	The password has been forgotten.	Check it in Orilink.ini file.

10.3. OriLink® professional version errors

The same as for basic version with one exception,

Sy	mptom	Cause	Remedy
	Failure to load professional version	Missing or not a valid License.dat file	Run the Licenser.exe file and send the created License.lic file to your representative for validation.

10.4. ODBC-key errors

To be able to set up an ODBC-key the OS must have properly installed MDAC and MSJET environment. This is normally done at installation of Windows 98SE/2K/XP but can be missing on 95/NT.

Symptom	Cause	Remedy		
Failure to select	Missing or faulty	Install the latest version of this in		

WE PROVIDE SOLUTIONS		
MSAccess .mdb driver at ODBC-key set-up.	MDAC/MSJET. The database or some other files are flagged Read-Only because it has been copied from a CD.	the same language as the OS. If this cannot be found use the English ones found on OriLink® WinTools CD in the \ <i>MS Data Access files</i> folder. If you do not now use MDAC version 2.52 MSJET40Sp3 More information can be found at <u>www.microsoft.com/technet</u> . Verify that the Read-Only flag is unchecked for all files in the OriLink® folder

10.5. WinDB Manager Errors.

WinDB Manager uses the ODBC-key OriLinkWinDB to connect to the database and must have properly installed MDAC and MSJET environment. This is normally done at installation of Windows 98SE/2K/XP but can be missing on 95/NT.

Symptom	Cause	Remedy
Language does not work	WinDB Manager does not support the selected language.	Change preferred language in the orilink.ini file. To solve it permanently fill in the OriLink WinDB translator.xls file in the CD folder <i>Extras\OLWDBM</i> <i>only English</i> and mail it to us.
Failure to open a menu item	Missing or faulty MDAC/MSJET. Missing or faulty OriLinkWinDB ODBC-key. The database is flagged Read-Only because it has been copied from a CD.	Install the latest version of this in the same language as the OS. If this cannot be found use the English ones found on OriLink® WinTools CD in the \ <i>MS Data Access files</i> folder. If you do not now use MDAC version 2.52 MSJET40Sp3 More information can be found at www.microsoft.com/TechNet.
Failure to start	The database or some other files are flagged Read-Only because it has been copied from a CD	Verify that the Read-Only flag is unchecked for all files in the OriLink® folder.
Wrong password.	The password has been forgotten.	Check it in orilink.ini file.

10.6. Service and OCP errors

All OCP-drivers and Services except Clock has log files were the operation could be checked.

Symptom	Cause	Remedy
Clock service started but time is not synchronised	One or more clock modules or chips are present in the system.	Remove all clock modules and clock chips from the system.
WinDB service fails	WinDB.ini is missing	Put a WinDB.ini file in the

WE PR	OVIDE SOLUTIONS		
	to load.	or configured wrong.	OriLink® folder.
		Missing or not a valid License.dat file.	Run the Licenser.exe file and send the created License.lic file to your representative for validation.
		The database or some other files are flagged Read-Only	Verify that the Read-Only flag is unchecked for all files in the OriLink® folder.
		because it has been copied from a CD	Check WinDB.log file for error messages.
	OCP-driver fails to load or does not work properly.	The INI file for it is missing or configured wrong.	Put the proper INI file in the OriLink® folder and verify the configuration.
		Missing or not a valid License.dat file.	Run the Licenser.exe file and send the created License.lic file to your representative for validation.
		The database or some other files are flagged Read-Only	Verify that the Read-Only flag is unchecked for all files in the OriLink® folder.
		because it has been copied from a CD.	Check Log file for the OCP-driver for error messages.
	OCP-driver cannot connect to DMS	Wrong configuration in INI file.	Verify the configuration.
	system.	Customer network	Check customer network functionality.
		error.	Verify the DMS server name and/or
		DMS server name	IP-address.
		and/or IP-address changed.	Verify network folder sharing.
		Network folders sharing not properly set or changed.	

11. Advanced features

11.1. Module PNP update priority (Large systems).

The OriLink® communication network is of collation type like Ethernet, the first module that demands net network gets it and the others have to wait. If all modules tries to issue or answer to a general PNP update request in a system with a lot of modules there would be a lot of net requests at the same time during a very short period of time. OriLink® uses PNP update priority based on the address of the module to spread this over a longer time period.

In a large system with a lot of modules it is recommended to set the addresses of the modules so that the update priority is spread evenly. This is called fragmented updating.

The PNP update priority of a module is based on the first and the last figure of the address and a lower figure has higher priority than a higher.

	MPDM	PM	KP	LED	Vacant	Vacant	Vacant	TCM	Vacant
Address	X=1	X=2	X=3	X=4	X=5	X=6	X=7	X=8	X=9
X??0	30	34	38	42	46	50	54	58	62
X??1	31	35	39	43	47	51	55	59	63
X??2	32	36	40	44	48	52	56	60	64
X??3	33	37	41	45	49	53	57	61	65
X??4	30	34	38	42	46	50	54	58	62
X??5	31	35	39	43	47	51	55	59	63
X??6	32	36	40	44	48	52	56	60	64
X??7	33	37	41	45	49	53	57	61	65
X??8	30	34	38	42	46	50	54	58	62
X??9	31	35	39	43	47	51	55	59	63

The OriLink® engine always has a PNP update priority of 10.

This is an example of how setting the address sets the priority.

Priority	Module	Address	Comments	
31	MPDM	1001	The order between this two will be random	
51	MPDM	1011	The order between this two will be random	
	MPDM	1092	The order between this three will be random	
32	MPDM	1032		
	MPDM	1046		
33	MPDM	1023	The order between this two will be random	
55	MPDM	1013	The order between this two will be random	
38	KP	3004	The order between this two will be random	
30	KP	3074	The order between this two will be random	
41	KP	3013	The order between this two will be random	
	KP	3023		
43	LED	4001		
59	TCM	8005		

11.2. Change language for modules by a command

In the OriLink® folder (C: Orilink) there are a program Ollang.exe and a Lang.lan file, these two files are used to change the language of the modules.

Start the OriLink® engine if it is not running and wait until all modules are found.

Close WinDB Manager, Neighbourhood and custom layouts if any of them are running.

If the script service is used it must be unloaded.

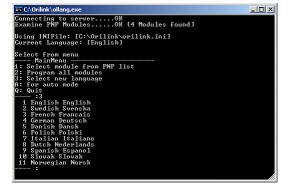
It is recommended to not dispense while using Ollang.exe.

Start Ollang.exe by double click on it or use a short cut if one is created. A short cut is not created by default because it should not easily be possible for a user to run Ollang.exe.

The Ollang.exe is a MS-DOS program and because of this a MS-DOS window opens

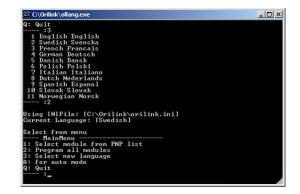


First step is to set the desired language. Type 3 followed by <ENTER>.



To change to Swedish type 2 followed by <ENTER>.

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This can also be changed by editing the orilink.ini file, look for the part that looks like this

[Language] PreferedLanguage=English

Change it to,

[Language] PreferedLanguage=Swedish

This will be the same as above.

If your language is missing ask for a translator file. This file is a normal MSExcel2000 .XLS file with three columns Swedish, English and Your language. Fill in the Your Language column and return it.

You will receive a new Lang.lan file to put in the OriLink® folder (C:\Orilink).

This is how it looks when it is finished. Type Q followed by <ENTER> to quit.

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Second step is to program all modules to the preferred language, here English. Type 2 followed by <ENTER>.

ex C:\Orilink\ollang.exe	- U ×
Alentec & Orion AB Copyright® 2003 Orilink® Language Command Line Tool Version 2.01rc4	
Connecting to serverOK Examine PNP ModulesOK [4 Modules found]	
Using INIFile: [C:\Orilink\orilink.ini] Current Language: [English]	
Select from menu MainMenu	
1: Select module from PNP list 2: Program all modules 3: Select new Language	
A: for auto mode Q: Quit	
[]:2 Programing MPDM100 at 1005 to English [ooooooooooooooooooo Programing PM100 at 2005 to English [oooooooooo	2000]]

It is also possible to have different languages in different modules this is done by setting the language to desired one and then use menu item 1.

When the preferred language is set, here English, Type 1 followed by <ENTER>. Select module from PNP list, here MPDM100 with address 1005. Type 1 followed by <ENTER>.



ex C:\	Orilink\ollang.	ехе	>
	rogram all elect new		
	or auto mo		
Q:Q			
	:1		
No	Address	Moduletype	
1	1005	 МРDM1 00	
123	2005	PM100	
3	2005 3005	KP100	
4	4005	LED100	
	:1		
Prog	raming MPU	M100 at 1005 to English [oooooooooooooooooo	0]
llein	INIFile:	[C:\Orilink\orilink.ini]	
		ge: [English]	
	ono nangaa	go. chigatoni	
	ct from me		
		le from PNP list	
	rogram all elect new		
	or auto mo		
$\dot{\mathbf{q}}$: $\dot{\mathbf{q}}$			
	:		

This is how it looks when it is finished. Type Q

followed by <ENTER> to quit.

11.3. Set modules to production default by a command

If you have managed to destroy or mix up the setting of a module the module can be restored to factory default by using the OlLang.exe or directly by the Autores.exe program.

This can be done within the system if no modules in the system have their address set to factory default (X000) or if the system only contains one of each type of module. The reason for this is that the module you are restoring will have it's address set to factory default which is X000 and if any other module of the same type has address set to X000 there will be a collision and the system will not work or behave strange.

Start the OriLink[®] engine if it is not running and wait until all modules are found.

Close WinDB Manager, Neighbourhood and custom layouts if any of them are running.

If the script service is used it must be unloaded.

It is recommended to not dispense while using Autores.exe.

Start Ollang.exe by double click on it or use a short cut if one is created. A short cut is not created by default because it should not easily be possible for a user to run Ollang.exe.

The Ollang.exe is a MS-DOS program and because of this a MS-DOS window opens

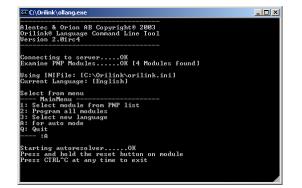
Alentec & Orion AB Copyright@ 2003 Orilink@ Language Command Line Tool Uersion 2.03rc4 Connecting to server.....0K Examine PMP Modules.....0K [4 Modules found] Using INIFile: [C:\Orilink\orilink.ini] Current Language: [English] Select from nenu : Select menu : Select menu inte from PNP list 2: Select new language A: for auto mode Q: Quit ---- :

NOTE! Everything in the module will be set to default. Databases will be cleared and receipt, fast menu, reels, serial ports on keypads etc will be set to default.

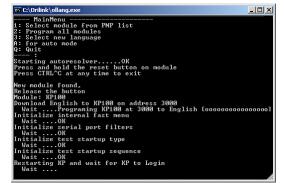
- 🗆 ×

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First step is to start the "autoresolver". Type A followed by <ENTER>.



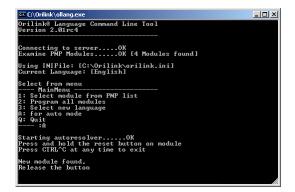
Now the restoring starts, here for a keypad. During the process Ollang and sometimes the module will ask for som input or show some output depending on module type. Here Ollang waits for you to press <ENTER> on the keypad. The keypad also shows this. Press <ENTER> on the keypad.



When it is finnished and everything went OK it looks like this. To continue with another module press and hold it's reset button and so on. The shutdown the "autoresolver" press CTRL and C at the same time.

🛤 C:\Orilink\ollang.exe	
Restarting KP and wait for KP to Login WaitOK	
Type The text on the KP WaitOK Initialize default startup type	
WaitOK Initialize default startup sequence	
WaitOK Rebooting KPOK	
 < @ @ > 000₀<_>-₀00₀	
Programing KP Done with no Errors!!!	
Starting autoresolverOK Press and hold the reset button on module Press CTRL^C at any time to exit	

Nest press and hold the reset button on the module until Ollang tells you to Release the button.



Here Ollang asks you to type something on the keypad and the keypad shows you what to type. Type 159. and the <ENTER> on the keypad

🖎 C:\Orilink\ollang.exe	<u> </u>
A: for auto mode	
Q: Quit	
-α	
Starting autoresolverOK	
Press and hold the reset button on module	
Press CTRL^C at any time to exit	
New module found,	
Release the button	
Module: KP100 Download English to KP100 on address 3000	
WaitPrograming KP100 at 3000 to English Looooooo	
Initialize internal fast menu	
WaitOK	
Initialize serial port filters WaitOK	
Initialize test startup type	
WaitOK	
Initialize test startup sequence WaitOK	
waitOK Restarting KP and wait for KP to Login	
WaitOK	
Type The text on the KP	
Wait	

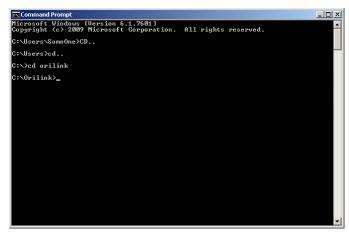
Then to shutdown Ollang type Q followed by <ENTER>.



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11.4. OISet.exe, command line tool.

OlSet.exe is a command line toll that can be used to quickly set things in modules. To use it you first start a command (DOS, Power Shell,) window and browse to the OriLink® folder, install default is C:\Orilink.



If you type OISet <ENTER> you will get an instruction with some examples on how to use it



It is based on the fast menu codes (fcode's) but has 2 more possible parameters (arguments).

The first argument is the value or action call you want to send to the menu defined by the command parameter.

The second argument is optional and used for some specific instructions.

For calibration it is used to write an integer value (I) or a float value (F) depending on which the target module supports. For Reboot, reboot argument tells OlSet to ask for the address of the module that should be rebooted and then issue a forced reboot command to that module.

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11.5. Creating submenus in the engine control menu

The first step is to create a Run folder in the OriLink® main folder, this is done during installation for R7 and later.

 $C: \label{eq:constraint} C: \label{eq:constraint} C: \label{eq:constraint} Orilink \label{eq:constraint} Run$

Now create some usable folders in the C:\Orilink\Run folder like this,

C:\Orilink\Run\Data

C:\Orilink\Run\Layouts

If the engine control menu is opened after this is done there will be two new submenus in the Control menu, Data and Layouts.

Now we shall put some useful things in these two items.

Put a short cut for the OriLinkWinDB.exe file in the Data folder and put a short cut for the HwMon2.exe in the Layouts folder.

If the engine control menu is opened after this is done the result will be this.



Left-click on a short cut and the software will start.

This is a good way to create an OriLink® customized user menu.

You can change the names for the submenu items by changing the names of the short cuts in the folders.

11.6. Design a custom system graphic layout (HwMon2)

A customer specific monitoring system layout could be created by the use of the software HWMon2.exe. HWMon2 does exactly the same as HWMon (The OriLink® Neighbourhood in R6 and earlier) but with HWMon2 the different parts of the system can be arranged to look similar to the actual workshop.

Creating an OriLink Layout file with the extension .OLL does this.

You can have several different layout files for the same workshop for example one for each working bay.

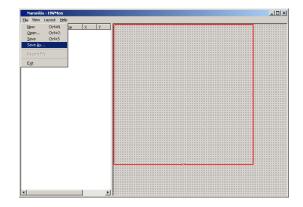
It is possible to have multiple layouts shown at the same time but remember that they are real-time software and uses computer power.

11.6.1. Create a new layout file.

First start by click *HWMon2-Create New Layout* in the Start>Orilink menu this will make the default HWMon2 start window to appear.

Nancis HWMan.

First save the layout to give it a name. Remember to save the layout file regulary as the layout grows.



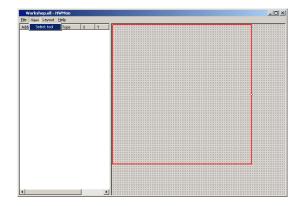
Can start selecting what to show in the

Browse to a suitable folder for example *C:\Orlink* or *C:\Orlink\Layouts* if doesn't exist create one and type in a name, here Workshop. Then click the Save button.

		<u>? ×</u>
Layouts	• + 🗈	💣 🎫 •
Workshop.ol		Save
	Layouts	Layout: 💌 🗲 🖻

Open the Select Tool. Viewing the select tool is toggled, select it once shows it select it again hides it.

The red square shows the start-up size of the layout in normal run time mode. It can be sized to fit the amount of controls by left click hold and drag the small squares on the left and lower boarders.

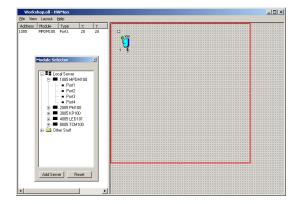


Morkshopd = HWHon (5 Werk Layout Bello Address Modale Street ar Underson Modale Street ar Underson

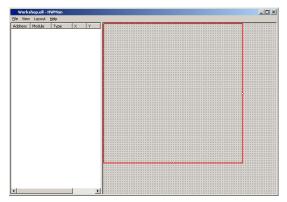
Now open a module, click the small "+" sign. Here a MPDM.

- Workshop.oll - HWMon				
ie View Layout <u>H</u> elp				
ddress Module Type X	Y			
Module Selector	X			
Local Server 1005 MPDM100			2	
⊕- 2005 PM100 ⊕- 3005 KP100 ⊕- 4005 LED101 ⊕- 8005 TCM100 ⊕- 0ther Stuff				
Add Server Reset				

Now select the graphic control for the wanted part of the module by doubble clicking on it in the module selector. Here Port1 of the MPDM.



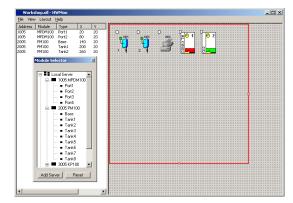
Now we can start selecting what to show in the Workshop Layout.



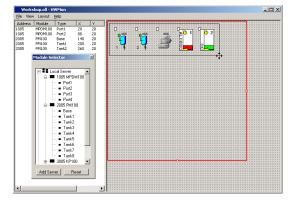
Then open the *Local Server*, click the small "+" sign. A computer name might also be showing here, this is explained under chapter "Creating a Client layout file". The module selector works in a similar way as the Windows explorer. If you single click an item it is opened, if there is something in it and if you double click an item it is selected if possible.

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Add moore graphic controls in the same way. When the HWMon2 graphic window "top row" is getting ful select the controls using the mouse.



Place the cursor above and to the left of the white small square of the first "reel" press and hold the left mouse button. Release the mouse button when the created rectangle covers the desired controls.

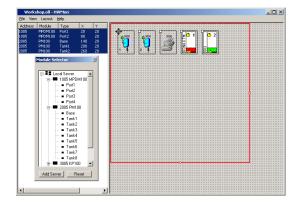


The controls can be moved in three different ways.

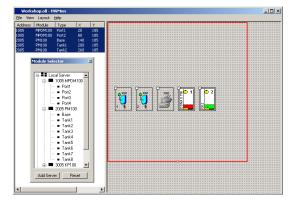
Using the keyboard arrow keys. Typing in the coordinates in the table view to the left Using the mouse.

Here we will show how to move them with the mouse. The controls are grabbed by the "handle", the small white square in the upper left corner of a control. If moore than one control are selected place the cursor over one of the handles, hold down the keyboard control button. Press and hold the left mouse button and drag the controls to were you want them and release the mose and then the control button.

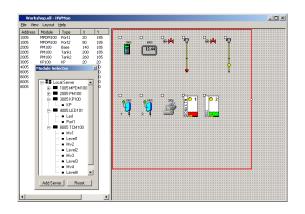
Like this.

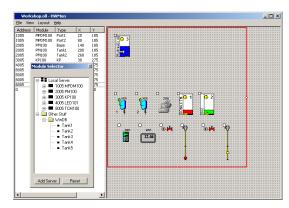


Here we move the controls down to free up space for moore controls. To unselect controls left click on the graphic background.



Now click on the Module Selector Reset button to set the insertion point for new controls to the upper left corner of the HWMON2 graphic window. Then add some moore controls. If the service WinDB.dll is loaded and there are configured tanks in the PC database Contols for these tanks are found under OtherStuff>WinDB in the module selector.

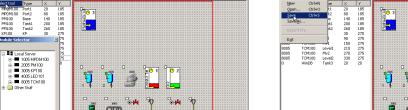




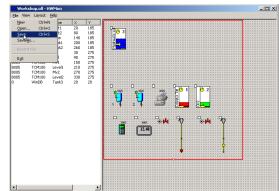
When all wanted controls are visible in the graphic

window you can hide the Module selector if you like

Now save the layout.



- 🗆 🗵



11.6.2. Edit a layout.

Add Server Res

If the layout you want to edit is closed it can be opened for editing in two ways.

In windows explorer right click the layout file (.OLL) and select edit.

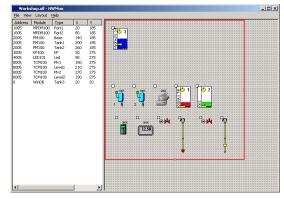
From Start>OriLink menu left click "HWMon2-Create New Layout". Them open the wanted .OLL file.

The result in our example (workshop.oll) would be this.

Before editing it is good to now the basics of how the graphics work.

The red rectangle shows what will be shown when the layout is are started in normal running mode. Dragging the small red squares at the right and bottom lines can modify this.

All graphic controls are placed, selected and handled through its "handle". The handle is the little white square in the upper left corner.



All properties for a control can be set as in the OriLink® Neighbourhood or a Layout in normal running mode by right alight on it. The only difference is that it must be cale

right click on it. The only difference is that it must be selected first by left-click on the handle.

Controls can be selected and moved as any normal graphic objects in any standard windows application. It can be done in the graphics window to the right or in the table view to the left.

Left-Click on the handle in the graphics view or on the module address in the table view.

Select one control – Left-click on the handle or on the module address.

Select multiple controls- Select first module press and hold down the PC keyboard Ctrl-button and then select the rest of the wanted modules.

Select grouped multiple controls- It can be done as above but it can also be done only with the mouse. Place the cursor above and to the left of the handle of the upper left control of the group. Press and hold down the left mouse button. Drag the mouse until the created selection rectangle covers the handles of all wanted controls.

 Move a selected control Place the cursor above the control handle. Press and hold down the left mouse button. Drag the control to the desired position and then release the mouse button.

 Or use the PC keyboard arrow buttons.
 Or type in coordinates in the table view (X/Y).

Move a selected group of controls- Place the cursor above one the control handles. Press and hold down the PC keyboard Ctrl-button then press and hold down the left mouse button. Drag the group of controls to the desired position and release mouse and keyboard buttons. Or use the PC keyboard arrow buttons.

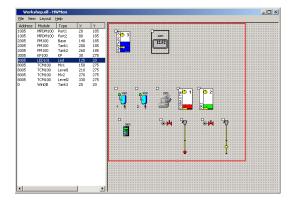
How to unselect controls-

Left-Click somewhere on the layout graphic background.

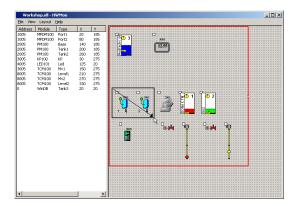
Worshop.oll opened in edit mode.

	Layout	Helb			
Address	Module	Type	×	Y	
1005	MPDM100	Port1	20	185	
1005	MPDM100	Port2	80	185	703 3
2005	PM100	Base	140	185	100
2005	PM100	Tankt	200	185	
2005	PM100	Tank2	260	185	
3005	KP100	KP	30	275	
4005	LED101	Led	90	275	
8005	TCM100	Mv1	150	275	
8005	TCM100	Level1	210	275	
8005	TCM100	Mv2	270	275	
8005	TCM100	Level2	330	275	
00000	WinDB	Tank3	20	20	
U	WINDB	Tank3	20	20	
					+1005 +1005 mm = 0 1 0 2
1					
1					
1					
1					
1					
1					°_ <u>_</u> ™ ₀₩ βλ ₀₩ βλ
1					₩ ₩ ₩ ₩ ₩
1					accs xccs ⊕ A V ⊕ A V
1					
1					12.50
1					
1					
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1					
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1					

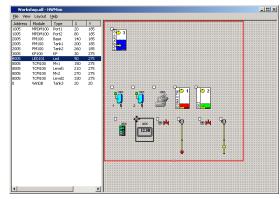
Drag the control to the desired spot and release the left mouse button.



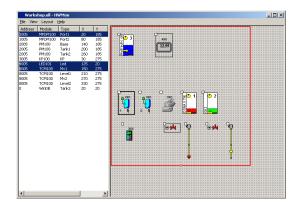
Now do a multiple group select, here the two reels.



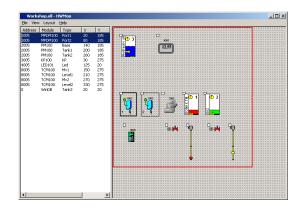
First move the LED control. Select it by Left-Click on the handle. Move it by Left-Click and hold on the handle.



Now try a multiple spread select example.

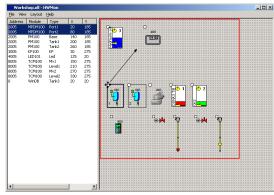


This is the result. The left reel with a thicker border is the primary select.

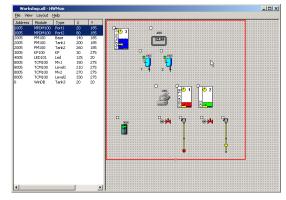


CRILINK® Release mouse button and the Ctrl-Button.

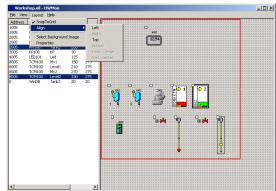
Now move the group. Move it by first press and hold PC keyboard Ctrl-button then leftclick and hold on the primary select handle. Drag the group to the desired position

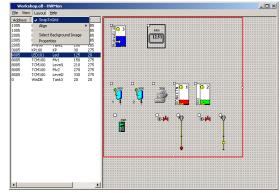


Then left-click somewhere on the background to unselect the controls.



To your help there are also advanced alignment tools and a possibility to use a grid.

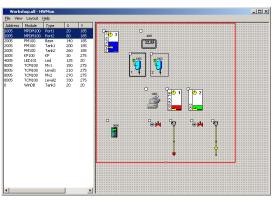




11.6.3. Modifying the layout background

By modifying the background of a layout it can be personalized to meet users, workshop, oil company,..., etc. demands.

Almost any bitmap file can be used. It can be a nice picture, a company log, a graphic schematic of pipe works,....etc.



Now do the same for the remaining controls. The result could be something

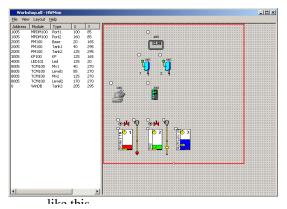


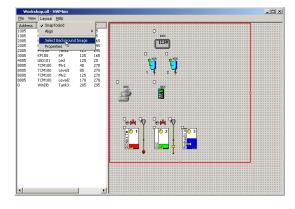
 Image: Section of the section of t

DRILINK®

First create the bitmap with any .BMP software. For example MSPaint that comes with Windows. Here SampleLogo.bmp



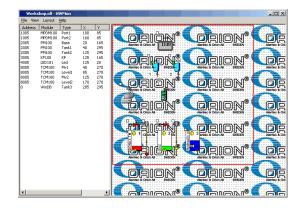
Then open the layout menu and click on Select Background Image.



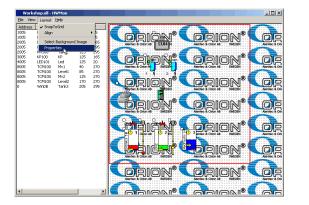
Select the file SampleLogo.bmp and click on Open.

earch in: 🚞	Drilink	💌 🔶 🖻	💣 💷 •
Chip Layouts Logs Manualer Nya R6 org	Careceipt CarRun Carestask Carectory WinD& Manager SampleLogo.bmp		
	SampleLogo.bmp Bitmap Files (*.bmp)		Open Cancel

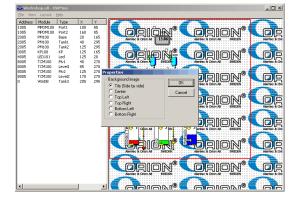
The default result will be.



To make it look good use the layout menu item Properties.



Here you can select how the background image should be placed.

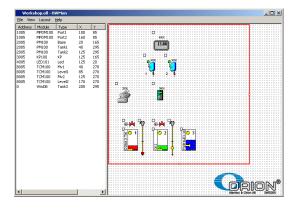


DRILINK®

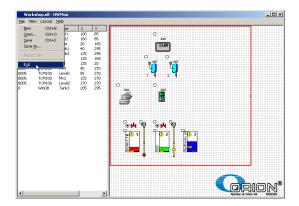
Choose bottom Right and click OK.

Background image C Tite (Side by side) C Center C Top Left C Top Right C Bottom Left Bottom Bight	Cancel
---	--------

This will be the result.



Now save the layout and close the layout edit mode.



11.6.4. Open a custom layout file

When a custom layout is created and looks like it should it can be started in normal running mode in several ways.

In Windows explorer by double click on the file.

Double click on a created Short Cut.

Single click on a created short cut in the Windows fast menu.

Select it from the OriLink engine control menu. See chapter "Creating submenus in the engine control menu"

This is shown here.

Right-click on the engine window background.



The normal running mode will open. Observe that the bottom right placement setting is done against the normal running mode.



DRILINK®

11.6.5. Creating a Client layout file.

OriLink® WinTools has full support for a "Client-Server" scenario. If this is the case the best thing to do when creating a layout file is to do it on the OriLink® Server. The OriLink® server is the PC that is running the engine and has all the OriLink® hardware connected.

If the server is set-up for remote access the Module selector will have two, or more, servers to select graphic controls from. In the above we have used the "Local Server" but if we want to use the created layout file on client PC's in the network we must select the graphic controls from the public server instead. The public server is the one with the same name as the OriLink® Server PC.

In this example the name of the PC running engine.exe is OriLink-PC.

🚭 Workshop.oll - HWMon	
Elle View Layout Help	
Efe fiver Layout Help Address Module Type X Y Server 1005 MPCM100 Part 20 20 DiLmI-PC Module Selector 21 Fieldule Selector 21	.
Add Server Reset	

In Windows Vista, 7, 8, 8.1,.... Microsoft has made the finding of computers in a network not so easy so if you do not find your OriLink® server in the list you can use the "Add server" feature. Click the <Add server> button in the Module selector and type in the network name or IP address of the OriLink® server

Add Server	Add Server
OriLink-PC OK	192.168.92.67 OK
Example: Cancel (Name) Machine1 (DNS)olserv.server.com (IP) 192.168.92.67	Example: Cancel (Name) Machine1 (DNS)olserv.server.com (IP) 192.168.92.67

If you drag the separator between the table view and the graphic view to the right you will se an extra column named Server. In this column you will se the name of the server that have the physical hardware that you have selected to be in the layout.

A layout can have controls from multiple servers.

See also the chapter "OriLink® Server-Client Set-up."

ORILINK®

11.7. Orion Common Platform (OCP)

The Orion Common Platform is a platform developed for interconnections between different Alentec & Orion AB monitoring systems and customer DMS systems. DMS stands for Data Management Systems.

Today all Alentec & Orion Systems OilMon800, OilMonPC-Win and OriLink® can be connected to the OCP.

What can be done with a connection to a DMS?

With a connection between a monitoring system and a DMS system it is possible to,

Verify that a work order/job/serial/part number typed in on a keypad by a user really exists and is valid for dispensing. This is called job number validation.

Transfer information of a made dispenses to the DMS system. This can be used to put the dispensed oil on an invoice or for historical track ability within a quality system.

Different DMS system can do one of them or both.

OriLink® can do both

11.7.1. Different ways of connections

There are a lot of different ways to make a connection for example,

ASCII text files (or other formats)

This is based on one valid job number file and one made transactions file.

The DMS system updates the job number file so it only contains valid job numbers, one on each row of the file. It also reads made transactions from the transaction file, one transaction on each row in the file. When a transaction is read it is also removed from the file to eliminate the risk of double read.

OriLink® validates the typed job number against the job number file and put new transactions in the transaction file.

The information and format of it and the names of the files can be set through an ini file.

ODBC

This is based on the same technique that OriLink® uses for the internal database handling.

Valid job numbers and transactions can be inserted or extracted through an ODBC key either by the OriLink® to the DMS system or by the DMS system to the OriLink® database.

Real-Time Client-Sever

This is based on that the OriLink® system acts as a client to the DMS system and when the user types in a job number he logs in to the DMS system and asks if it is valid or not.

When a transaction is made the OriLink® system logs on to the DMS system and sends the transaction.

The OriLink® system can use almost any kind of connection.

11.7.2. How does it work

There are two things that is needed to make a connection,

The DMS system must have a way to communicate this type of information.

There must be an OCP-driver that supports this way.

Most DMS systems of today have a way to do this and we develop the OCP-driver.

11.7.3. Existing OCP-drivers (040924)

We are continuously developing new drivers and the ones we have today are,

Generic Text, Generic ODBC (former name Generic SQL), TACDIS 5/6, GDS 2.1, KOBRA 2, DRACAR+, WinAssist, ROWIL, Connex, SMC, Automaster, Acosy, Kerridge,

If your DMS system is not in the list and cannot use one of the generic ones contact us because there are more in the pipeline.

11.7.4. How to install an OCP-driver

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The driver comes on a diskette. CD or as a zipped file package by mail. It is installed by running a .BAT file called Orilink.bat, if OriLink is installed in the default folder $C:\langle Orilink, If$ not the files has to be copied manually.



The OCP-driver is license protected through the License.dat file for OriLink®. If no License.dat exists in the OriLink® folder run the software Licenser.exe. See chapter "Convert BASIC version to Professional version".

If a License.dat exists we probably have in our database tell us to update it to enable the desired OCPdriver.

Open the INI file of the driver with notepad and adjust the settings. The manual for this is inside the INI file.

11.7.5. How to load an OCP-driver

An OCP-driver is loaded either from the OriLink® engine window or by editing the WinDB.ini file in the OriLink® folder *C:\Orilink*.

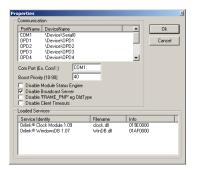
Open the engine window.

Right-click it and select properties.

EN Orilink© Engin	e v[1.06]PRO	<u> </u>
Port: Packet/Bytes: CS/FR/TO: Net Load: PC-side Clients: No of modules: Status:	COM1: [EXE] 19:665 0:0:0 3%(0) 3 [3] 5 Online	

EN Orilink© Engin	e v[1.06	i]PRO 🗵
Port: Packet/Bytes:	COM1: 81:2698	
CS/FR/TO: Net Load: PC-side Clients:	0:0:0 0%(0) 1 [1]	Update PNP Array Orilink© Neighbourhood
No of modules: Status:	4 Online	StopEngine
		Properties

The result will be like this.



Or directly.



By checking the "Use PartNumber in OCP1" checkbox the fluid part number will be transferred instead of the fluid name. *This feature only exists in WinDB Service 108RC2 or higher.*

Properties			×
Properties			Ok Cancel
OCP Identity	Filename	Instance	

Right-click on OriLink® WindowsDB... and select properties.



The WinDB service properties window opens.

Properties			
🔲 Use PartNumber in I	DCP1		Ok
Loaded OCPs WinDB			Cancel
OCP Identity	Filename	Instance	

Right-click Loaded OCP's window and select Add New OCP.

Properties			r
🔲 Use PartNumber in	OCP1		Ok
			Cancel
Loaded OCPs WinDB	•		
OCP Identity	Filename	Instance	
	Delete		
	Delete Properties		

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Select the desired OCP-driver, here WinAssist and click on Open button. Here WinAssist.

Select OCP file	e	<u>? ×</u>
Look in: 🜔	Orilink 🔽 🖛 🗈 📸 🏢 🕇	
Run Sbrand.dll clock.dll olservps.d WinDB.dll		
File <u>n</u> ame:	WAssist.dll	n
Files of type:	OCP Files (*.dll,*.ocp)	

Now click OK button to save and exit the engine properties window.

PortName	DeviceName			Ok
COM1	\Device\Serial0			
OPD1	\Device\OPD1			Cancel
OPD2	\Device\OPD2			
OPD3	\Device\OPD3			
OPD4	\Device\OPD4		-	
	(Com1-) COM1:			
Com Port (E:	Com1:) COM1:			
Boost Priority	(10-90) 40			
- Dicable I	Module Status Engine			
	Broadcast Server			
	FRAME PNP' eq OldTy	ne.		
Disable '				
	Client Timeouts			
Disable	Client Timeouts			
Disable I oaded Serv	Client Timeouts ices	Filename	Info	
Disable I oaded Serv Service Ide	Client Timeouts ices	Filename clock dl		
Disable I .oaded Serv Service Ide Orifink® Ck	Client Timeouts ices mbty	clock.dl	019E0000	
Disable I .oaded Serv Service Ide Orifink® Ck	Client Timeouts ices entity ick Module 1.09			

This will be the result. Click on OK button to save it.

Loaded OCPs WinDB		Ok
OCP Identity WinAssist OCP v1.02	Filename WAssist.dll	Cancel
		F

If there are problems with this it is probably because the License.dat is missing or not valid for the selected OCP-driver.

This can be checked by opening the DriverName.log file in the OriLink® folder.

This can also be done by editing the WinDB.ini file in the OriLink® folder.

WinDB.ini (example)

[Log] FileName=windb.log MaxLines=200

[OCP] OCP=

Edit the line OCP= to,

OCP=WinAssist.dll

and save it.

This will give the same result as above.

Always restart the OriLink® engine when changes has been made to it's properties.

11.8. OriLink® Server-Client Set-up.

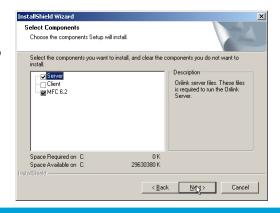
If an OriLink® system is connected to a PC (OriLink® Server) that is connected to a network and this PC has the OriLink® software installed it is possible to control and view the OriLink® system from another PC (OriLink® Client) in this network.

This document shows how this is accomplished.

11.8.1. Install the software on Server

On the server it is recommended to install both the server and the client software, see chapter "Installation", but not necessary.

You can choose to only install server software. If you



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want to only install server software uncheck the client line before clicking the Next-button.

If only the server software is installed you will not be able to create layouts on the server.

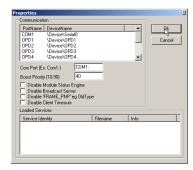
Typical situations were you might want to only install the server software is if the server does not have a display or keyboard.

Start the OriLink® Engine. Right-click on the engine window background and select properties.

Uncheck the item "Disable Broadcast Server"

PortName COM1	DeviceName \Device\Serial0		<u> </u>	Ok
OPD1	\Device\OPD1			Cance
OPD1	VDevice\OPD1		_	Cance
OPD3	\Device\OPD3			
OPD4	\Device\OPD4		-	
Com Port (E:	COM1:) COM1:			
Boost Priorite	(10-90) 40			
	dodule Status Engine			
	Broadcast Server			
	FRAME_PNP' eg OldTy	pe		
Disable I	Client Timeouts			
.oaded Serv	ices			
Service Ide	ntity	Filename	Info	

Left-click the OK-button.



Shut down the engine.

11.8.2. OriLink® Server set-up (Windows98SE)

Install the OriLink® WinTools software.

Start regedit

NOTE! Altering this setting will have a great impact on security issues, and should not be done without discussion with a network/computer technician!

NOTE! It is very important that nothing else is changed, it could give the result that WINDOWS stops working !

Select Run from the start menu.

Regedit started

Change the "N" to "Y".

Kör	?	×
	Skriv in namnet på ett program, en mapp eller ett dokument som du vill öppna.	
<u>Ö</u> ppna:	regedit	
	OK Avbryt <u>B</u> läddra	

🕵 Registereditorn		_ 🗆 🗵
R <u>eg</u> ister <u>R</u> edigera ⊻isa <u>Hj</u> älp		
Benhärdstore HKEY_CLASSES.PROT HKEY_CLASSES.PROT HKEY_CUPRENT_USER HKEY_CUPRENT_USER HKEY_CUPRENT_CONFIG HKEY_UPRENT_CONFIG HKEY_DYN_DATA	Namn	Data
Den här datorn		/h

Go to \HKEY_LOCAL_MACHINE\Software\ Microsoft\OLE. Double click on "EnableRemoteConnect".

Register	<u>R</u> edigera	⊻isa	<u>H</u> jälp				
	÷-	NetDD			•	Namn	Data
	÷ 🗀	NetSho	w			(Standard)	(värde har ej angivits)
	÷ 🗎	Office				EnableDCOM	''Y''
		OLE				EnableRemoteCon	"N"
			Express				
		Plus!					
			ed Storage	System Pr			
		Rpc					
			ılingAgent				
	•	Shared			_		
			Tools Loca	tion			
	•		Certificates				
	•	TShoo			-1		
4	: I. (iii)	Tunina	Snaces	l F	1	4	1
<u> </u>				<u> </u>		L I.	

Redigera sträng	? ×
<u>V</u> ärde:	
EnableRemoteConnect	
<u>D</u> ata:	
N	
	OK Avbryt

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Then left-click the OK-button.

Redigera sträng		?×
<u>V</u> ärde:		
EnableRemoteConnect		
<u>D</u> ata:		
М		
	OK	Avbryt

It should now look like this.

😭 Registereditorn		
R <u>eg</u> ister <u>R</u> edigera <u>V</u> isa <u>Hj</u> älp		
🕂 🛄 NetDDE 🔺	Namn	Data
😟 🧰 NetShow	(Standard)	(värde har ej angivits)
🕀 🛄 Office	EnableDCOM	"Y"
	EnableRemoteCon	nyn
Outlook Express		
🕀 🧰 Plus!		
😟 🧰 Protected Storage System Pr		
B Bpc		
SchedulingAgent		
😟 🛄 Shared Tools 📃		
- Shared Tools Location		
SystemCertificates		
E TShoot		
Tuning Spaces		-
Den här datom\HKEY_LOCAL_MACHINE\Software\	dicrosoft\OLE	1.

Close REGEDIT.

Restart computer!

11.8.3. OriLink® Server set-up (Windows NT/2000/XP SP1)

For Windows NT/2000/XP the same thing can be done by a skilled computer administrator. To make it easier for these operating systems we have created a small registration file,

Register Engine NT4-2000-XP.reg

placed on the OriLink® WinTools R8 CD in the folder,

?:\EXTRAS\Remote Access.

Copy this file to a temporary folder and double click it. You will be prompted to agree and then there will be a message of success.

Restart the computer.

11.8.4. OriLink® Server set-up (Windows XP SP2)

In Windows XP service pack 2 the security has been increased and because of this first 11.7.3 has to be done.

Then the procedure described in the document "Setup an 'Orilink Server' for remote Engine access on Windows XP SP2.pdf" must be done. This document is placed on the OriLink® WinTools R8 CD in the folder,

?:\EXTRAS\Remote Access.

After it is done restart the computer.

11.8.5. OriLink® Client Set-up.

Install only the OriLink® WinTools client software on the client PC. Uncheck the Server line before left-click on the Next-button.

The same rules of BASIC / Professional version as for the normal installation applies to a client installation.

11.8.6. Start Up.

Start OriLink® engine on the OriLink® Server.

Start the software HWMon.exe on the OriLink® Client PC and select the proper server from the list



and click on the Save-button. This will open a remote OriLink® neighbourhood session.

If you have made a custom layout as described in chapter "Creating a Client layout file." You can put this layout file in the c:\Orilink folder of the client PC and double click on the file. This will start a client session of this layout.

11.9. Importing data to Microsoft EXCEL

Importing data from the OriLink® PC database to Microsoft EXCEL is very simple. Using the query wizard in MS EXCEL and the OriLinkWinDB ODBC key, see chapter 7.2, does this.

Start MSExcel and open a new spreadsheet.

 Microsoft Excel-Book1

 Image: Second secon

- 🗆 × Micros oft Excel - Bo _ 8 × Eile Edit View Insert Format Data Window Help 🗅 😅 🖬 🔒 🚝 💁 🛍 🗈 🛍 sort.. • • Filter 81 Subtotals. • Validation. Text to Columns... PivotTable and PivotChart Repor et Eyternal Data ♦ ► ► Sheet1 / Sheet2 / Sheet3 / 12 Import Text File.

Choose "Data" menu and choose "New query".

Choose OriLinkWinDB and click OK

hoose Data Source		<u>? ×</u>
Databases Queries OLAP Cubes		OK
<new data="" source=""> dBASE Files*</new>		Cancel
Excel Files* MS Access Database*		Browse
0riLinkWinDB*		Options
		Delete
Use the Query Wizard to create/edit querie		
	Ť.	

Choose the tables you need and open it by clicking on the "+" sign

Query Wizard - Choose Columns		×
What columns of data do you want to includ <u>A</u> vailable tables and columns:	e in your quegy? Columns in your quegy:	A F
Preview of data in selected column:		
Ereview Now Options	< Back Next > Cance	el

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Select the desired fields by marking them and then click on >. When all desired fields are selected click on <NEXT> button.

Query Wizard - Choose Columns What columns of data do you want to include	in your query?	×
Available tables and columns: ReelNo FluidNo ResaVolume StopCode Preselect Alterun F stra ▼	Columns in your query: > JobNo FluidAtteNumber FluidAtane City Volume	
Preview of data in selected column:		
Preview Now Options	< Back Next > Cancel	

Here you can sort your data and then click Next.

Juery Wizard - Sort Order	×
Specify how you want your data sorted. If you don't want to sort the data, click Next.	
Sort by JobNo	Ascending Descending
Then by	C Ascending C Descending
Then by	C Ascending C Descending
<u>ا></u>	ack <u>N</u> ext > Cancel

If you choose to return the data to MSExcel you must decide where it should be placed. "Left-Click" a cell in the spreadsheet and the "Left-Click" OK.

teturning External Data to Microsoft Exce	l ?>
Where do you want to put the data?	ОК
Existing worksheet: A\$1	Cancel
C New worksheet	Properties
○ <u>Pi</u> votTable report	Parameters

Here you can filter the data and then click Next.

Column to filter:	he data, click Next. Only include rows where:	
JobNo	JobNo	
FluidArtikelNumber FluidName		7
Disp Volume	O And O Gr	
		v
	O And O Or	
		×
	O Ard O fr	

Here you can choose where you want to do with the data and if you want to save the query,

Query Wizard - Finish				×
What would you like to do next?				
Beturn Data to Microsoft Excel			Save Query	
C ⊻iew data or edit query in Microsoft Query				
C Create an OLAP Cube from this query				
	< <u>B</u> ack	Finish	Cancel	

then click Finnish.

Now you can design you report with MSExcel.

	<u>File</u>	dit y	jew	Inse	rt I	= <u>o</u> rm	at	<u>T</u> ools	Da	ita	<u>W</u> ind	000	<u>H</u> elp															- 5	12
D	🗃	2 6) (i (à :	¥	Ж		6	ĸ	• •	۲	Σ	f _n	₿↓		2	» •	Ari	al			•	10	٠	B	I	Ū	
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2	12	8456	5.02	AS2	34	5ES				Mo	tor C	Dil				4.8													
3		_	_										-																
4 5																													
D G													-																
2 7																													
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9													-																
0																		Ext	ern	al Da	ta		×	1					
11																		G , (Q.		• 5	8 1	1.6	Н					
2																	_			in I		*) 1	10	5					
13																													
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16																													
17																													3
0	F FI			-	_	-										_		•											

Finished.

11.10. Using MS Access

Basic knowledge of MSAccess is necessary.

To manage the database, double-click on C:\Orilink\OriLinkWinDB_O2K.mdb and MSAccess starts. This can be done with the OriLink® engine running.

OriLinkDB_O2K : Database (Acces	s 2000 file format) - Microsoft Access 🛛 🗕 🗖 🗙
Home Create External Data Database Tools	0
Views Clipboard	Records Sort & Filter Sort & Filter Kernel Sort & Size to Switch Fit Form Windows* Window
Security Warning Certain content in the database has been di	sabled Options
Tables 🔍 «	
AlertTypes	
Completion	
DBDockS	
III Fluid	
FluidContacts	
FluidTransactions	
JobNumber	
MessageHistory	
NotificationMethods	
PresetsPerCode	
ReceiptTable	
Stock Stock	
Suppliers	
TankFillingHistory	
🛄 User	
🛄 Version	
Ready	Num Lock

Now it is possible to check the different tables, add/remove/edit users, Jobs, Tanks and so on. It is also easy to create nice looking reports if the one you want does not already exist in the Report section of WinDb Manager

11.11. Script service 23475, script.dll (Professional only)

Sometimes there are a need for customized dispensing such as mixing fluids, fill several fluids with different volumes at the same time (recipe), input customized information together with the dispense, simple stock handling of other things than fluids, time scheduled dispenses and similar things.

OriLink® is tailor made for this and uses a service called Script Service. The script service (script.dll) is loaded from the OriLink® engine properties window exactly as any other service.

The OriLink® WinTools R7 or later installs everything needed for the basic Script Service and with a script set that enables the use of pre-set dispensing. The pre-sets are configured through the OriLink® WinDB Manager and are stored in the OriLink® PC database.

The use of the service is license protected through the License.dat file for OriLink®. If no License.dat exists in the OriLink® folder run the software Licenser.exe. See chapter "Convert BASIC version to Professional version". If a License.dat exists we probably have in our database tell us to update it to enable the Script service.

11.11.1. How does it work?

When you type a reel number on a keypad the keypad searches the OriLink® network for something that matches the request. If it cannot find a reel with this number it then searches the services and OCP-drivers loaded.

If it finds a script that matches this request it starts talking directly with the script. When the script has received answers to all its questions the script does the opening of reels etc.

Other possibilities are,

Scripts that runs when they are double clicked

Time scheduled Scripts.

Automatic Scripts.



Scripts that can be started with dynamic input parameters. This type can be used both locally and remote. Through for example a .bat file, a short-cut or from an external application.

11.11.2. What kind of script language is used

The OriLink® script service uses a script language called CSL. It is an Open License script language and is used by a large number of users over the world. This means that the script interpreter are free to use for anyone and that all fixes of it must be reported to other users. It also means that information about how to write CSL scripts can be found for free on the Internet.

The License protection for the OriLink® script service is not for the CSL interpreter it is for the connection between the OriLink® system and the interpreter.

11.11.3. How to write scripts

Scripts are written using a simple text file editor such as notepad. See OriLink® separate Script manual for details.

12. Using MPDM as TCM100 (Simple tank controller)

If analogue sensors are not needed A MPDM100 hardware can be flashed with a TCM100 software and language. It is also recommended to set its address to 8??? So it is shown among tank controllers and not among MPDM's.

To change the software in a chip it must first be flashed to a CO chip, see chapter "9.3 How to change module type in a flash chip". Then select the TCM100xx... you want to use and flash the module.

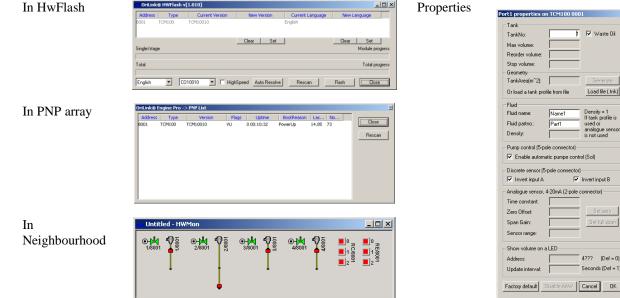
Then re-flash the language of the module so it get's the TCM100 language.

FFFI Coche Cost0010	
MPDM10010x4MHz LED10110	Clear Set Module progress Total progress Flash Close
OriLink® HWFlash v[1.010]	
Address Type Current Version New Version Current Lang	age New Language

Address	Type	Current Version	New Version	Current Language	New Language	
001	TCM100	TCM10010		English		-
					English Swedish French German	
ingle/stag	le.		Clear Set	1	Danish Polish Italian Dutch	Pre
otal					Spanish Slovak	pre
Inglish	•	:010010 💌 🗆 High	Speed Auto Resolve	Rescan	Norwegian Chinese Lithuanian Russian	-

When it is all done the result will be something like this. OriLink® HWFlash v[1.010]

In HwFlash



The result is a TCM module with optional connector support instead of analogue sensor support. That is why all settings associated with analogue sensor support are disabled, greved out. See chapter "6.13.5 Port[n] properties" for detailed information on settings

13. Using MPDM/TCM as a PLC (Programmable Logic Controller)

If the MPDM/TCM is equipped with a FLASH chip and the software version is 1.00.09 or later PLC code can be used to customize the functionality. To be able to input PLC code OriLink® WinTools R8 or later is needed. There are no needs for a PC to use the MPDM as a PLC only to program it. The PLC code is built on "ladder" code/diagram.

NOTE! Only about 244 characters of code can be used. For some unknown reasons you cannot have 53 characters in one row, more or less is fine. If the needed code has 53 characters add enter at the end of the row or split it on two rows.

13.1. Possible Inputs / Outputs

Device	Direction	Туре	Physical location	РСВ
p1o-p4o	Output	Control max 1.25 [A]	5-pole port connector	
p1ps-p4ps	Input	Signal (Pre-Set, MaxV)	5-pole port connector	
P1close-p4close	Input	Signal (Close port)	5-pole port connector	
p1a-p4a	Input	Signal	5-pole port connector	
p1b-p4b	Input	Signal	5-pole port connector	
i1p-i4p Input		Analogue 0-100 %	2-pole analogue connector	2030291A
p1s-p4s	Input (Read)	Detect status	Internal	
rc0-rc2	Input/Output	Signal	Optional 6-pole connector	2030262D
re0-re2 Input/Output		Signal	Optional 6-pole connector	2030262D
r1-r9	Input/Output	Virtual relays	Internal	
r1tSS-R9tSS	Input/Output	Virtual timer relays	Internal	
init		Start bit	Internal	
sopen	Input	Detect status	Key switch	

NOTE! Cyclic dispense mode uses pins of the optional connector as error warning outputs.

Port 1 uses rc0 Port 2 uses rc1 Port 3 uses rc2 Port 4 uses re0 So make sure not to mix PLC and Cyclic dispense mode for the same pin.

13.2. Supported operations

Loads the C register with value of device "i".
Logic AND of C and the value of device "i", the result is stored in C
Logic OR of C and the value of device "i", the result is stored in C
Logic XOR of C and the value of device "i", the result is stored in C
Loads device "o" with the data in the register C

13.3. Sample PLC coded functions

To make it easier to start up the use of the PLC feature this chapter gives some examples of the use of it.

13.3.1. Activate p4o with p4a for 60 s use r1 LD p4a OUT r1t60 LD r1 OUT p4o

13.3.2. Activate p4o with p4a for 10 s, if p4b is OFF Use r1 and deactivate p4o LD p4a OUT r1t10

LD r1 AND NOT p4b OUT p4o

13.3.3. Flipp-flopp for p3o

LD p3a OR p3o AND NOT p3b OUT p3o

13.3.4. Timed cascade coupling of Port1.

Description

(P2=ON) when P1 is ON plus 5 s (Prolonged MV1 pulse) (P3=ON) when P2 goes OFF plus 5 s (Pulse after prolonged MV1 pulse) (P4=ON) when P3 goes OFF plus 5 s

Code

LD p10 OUT r1t5 LD r1 OUT r2t5 LD r2 OUT r3t5 LD r3 OUT r4t5 LD r1 OUT p20 LD r2 AND NOT r1 OUT p30 LD r3 AND NOT r2 OUT p40

13.3.5. Start a pump p4o if the system is opened and activate p3o if it is closed

LD sopen OUT p4o OUT NOT p3o

13.3.6. Start control for a system with two pumps

Description

Start the pump p30 if the system is online. Start the pump p40 if the system is online and the safety switch rc0 is ON

Code

LD sopen OUT p3o AND rc0 OUT p4o

13.3.7. Simple analogue controller with hysteresis

Description

A temperature regulator on Port 1 with hysteresis, here 10%, which starts the heater when the sensor reading is below 25% of the range and shuts it down when it is over 35%. With heat-up override if you press push button on Input B.

Code

LD i1p<25 OR p1o AND i1p<35 OR p1b OUT p1o

13.3.8. Equip MPDM and or TCM with PLC chip software

If a complete MPDM or aTCM should be used only for PLC control it can be flashed with a PLC specific software. Then the port graphics and properties changes to more general symbols and names. The address range for PLC modules is 5000-5999.

13.3.8.1. PLC100 (a MPDM flashed with PLC100 software)

When MPDM hardware is flashed with PLC100 software and language the Port graphics and Properties are changes to more general symbols.



The greyed parameters are disabled since there is no hardware support for analogue sensor on a MPDM board.

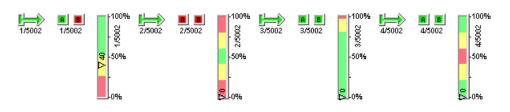
The RC and RE graphics shows status of the optional connector I/O pins.

ort1 properties o	n PLC100 500	1	×
Object			
ID:	B	V Invertifunction	
Max value:		V Interval	
Max value: Alert value:		In The Val	
Critical value: Geometry	J		
Property:		Gienerate	
Or load a profile fro	om hie	Load file (.prf)	
Media			
Name:	Name1	Property = 1 If a profile file is	
PartNo.:	Part1	used or	
Property:		analogue sensor is not used	
- Output (5-pole cor	nector)		
Enable Sol	,		
- Inputs (5-pole con	nector)		
🔽 Invert input A		Invert Input B	
Analogue sensor,	4-20mA (2-pole)	connector)	
Time constant:			
Zero Offset:		Set zero	
Gain correction:		Set full span	
Sensor range:			
Show value on a L	.ED		
Address:		4??? (Def = 0)	
Update interval:		Seconds (Def = 1)	
Factory default)isable AAW	Cancel OK]

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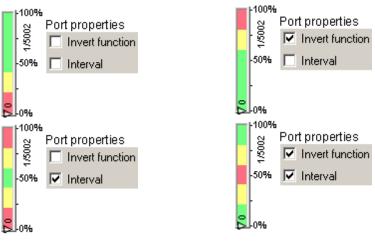
13.3.8.2. PLC200 (a TCM flashed with PLC200 software)

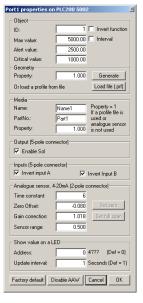
When TCM hardware is flashed with PLC200 software and language the Port graphics and Properties are changes to more general symbols.



The default mode is "Invert function" and "level" but by checking the parameter "Interval" the graphics will show interval instead.

Like this





14. Cyclic dispense mode

This can be used to make timed dispenses with a warning signal output if it fails. Enabling cyclic dispense mode for a MPDM port.

In the OriLink® neighbourhood right-click the reel/port you want to use.

Then select Properties from the menu.

The parameters marked yellow controls this mode.

Checking "Cyclic dispense mode", enables it.

The timeout parameter sets how often dispensing should be made, it can be between 1 - 255 minutes.

The "Max volume" parameter defines how much that should be dispensed each time.

The unit of the dispense depends on the calibration, parameter "PPU" (Pulses Per Unit)

To disable standard manual dispensing the Group can be set to <None>.

After saving the setting by clicking <OK> the module has to rebooted for the change to be activated. To do that select "Reboot Module" from the properties menu.

As soon as the module has rebooted, the scheduled dispensing starts.

14.1. How to get a warning signal for failed dispense.

On newer (manufactured after 2007) MPDM's there is a foot print for an Optional connector. A dispense port will send warning signal on a optional connector pin by setting it to low ("GND")

Port 1 -> RC0 Port 2 -> RC1 Port 3 -> RC2 Port 4 -> RE0

The status of the optional connector can also be seen in the OriLink graphics. Green when the pin is high and Red when the pin is low.

If a cyclic dispense does not detect pulses within 30 seconds it times-out and set the corresponding I/O pin low and shows red in the graphics.

Port1 proper	ties on M	IPDM100 1001		×			
ReelNumber:	1			OK			
Group:	All	▼ A ▼ B ▼ E ▼ F		Cancel			
Mask:		ate user ate job number ire volume	🔽 Use extern	nal user validation nal job validation nal tank validation			
	Use 2	ouls compensatio ?-signal meter : dispense mode	🗖 Dual/Qua	Use PortB as trigger Dual/Quadra pulse count Count down			
Timeout:	1						
PPU:	328						
Min volume:	0.50						
Max volume:	10.00						
DB Address:	2999	Sec DB Addre	ss: 0000				
LED Address	4001	Decima	ls: 2				
TankNo:	1						

Reboot module ?	×
Will not affect any configurati -Reboot ONLY!	ons settings in the module!
Cancel	ОК





_	N	K®	

Host Properties

Reboot Module

.

.

Properties Change Address

Each pin is capable of pulling at least 10mA to ground so a simple diode based warning indicator for Port one could be like this.

If control of larger currents or a potential free signal is wanted a transistor or a TTL to power a relay must be used.

14.2. How to get a record/report of dispenses.

If a "DB Address" is set, for example to a PC database (2999) each dispense will be stored in the targeted database

with CDM as job number so they can be separated from regular dispenses.

There will also be a stop code where 0 means OK and 2 means inactivity time-out.

15. Pre-programmed amounts with a MPDM

A MPDM can be configured as one dispense point with 5(4) or 7(6) programmable pre-set volumes. Connecting Port1 B or Port2 A, and so on to Port4 B low, activates these options. This can be done with an external power switch or some other control equipment like a PLC. Status signals about an initiated dispense can be received; status shows "Dispense successful", "Dispense error", and "Dispensing..."

You can also activate a dispense point using a regular KeyPad. A LED display can be used to monitor dispenses and a printer module or PC can be used to store and print the result.

15.1. Connect a MPDM to dispense pre-programmed amounts

Connect meter and solenoid valve to MPDM Port1:

NOTE! With one meter pulse train input you get 7 possible presets.

> With two meter pulse train input you get 6 possible presets.

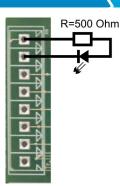
Connect momentary switches or some other control equipment between GND and the Input for the preprogrammed option (max 7(6)) as shown in the table to the right.

Preset	Port	Input	Volume	Comment
1	1	В	VolMAX	Only one REED
2(1)	2	А	VolMIN	One or two REEDS
3(2)	2	В	VolMAX	
4(3)	3	А	VolMIN	
5(4)	3	В	VolMAX	
6(5)	4	А	VolMIN	
7(6)	4	В	VolMAX	

15.2. Configure a MPDM to dispense pre-programmed amounts

The MPDM ports are configured as follows.

Port1:	INP B as trigger, add 256 to mask Set PPU to the PPU for the used meter Set MaxV to desired Preset 1	er
Port2:	INP B as trigger, add 256 to mask Set PPU to 0 (zero) Set MinV to desired Preset 2 Set MaxV to desired Preset 3	
Port3:	INP B as trigger, add 256 to mask Set PPU to 0 (zero) Set MinV to desired Preset 4 Set MaxV to desired Preset 5	
Port4:	INP B as trigger, add 256 to mask Set PPU to 0 (zero) Set MinV to desired Preset 6 Set MaxV to desired Preset 7	



DRILINK®

93(96)

15.3. Status information

Example: Light a GREEN LED if the dispense is successfully completed ted for some reason. Connect a GREEN LED to Port2 and П -

a RED LED to Port3 in the same way as a solenoid valve is connected.

The status of the port will change as soon as a new dispense is initiated.

15.4. Start, stop and reset function.

If needed the MPDM can be set to supply start, stop and reset function. Because of that Port 4 INP A/B is used for this only 5(4) pre-sets can be used. The function is activated by setting PORT4 PPU=65535. The function is then,

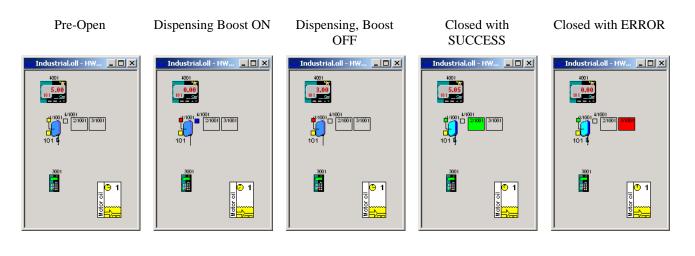
NOTE! With one pulse train input you get 5 possible presets.

> With two pulse train input you get 4 possible presets.

Port 4 INP A = Starts the chosen dispense.

Port 4 INP B = Stops the running dispense (gives ERROR signal on SOL Port 3) Resets ERROR signal when the dispense did not complete properly.

In this mode the graphics changes from reels to status symbols.



Port	Output	Function	Status
2	Sol	Active Low	OK
3	Sol	Active Low	ERROR
4	Sol	Boost valve	ON/OFF

d or	a RED L	ED if the d	ispense is abor	t
ort	Output	Function	Status	

Preset	Port	Input	t Volume Comment	
1	1	В	VolMAX	Only one REED
2(1)	2	А	VolMIN	One or two REED
3(2)	2	В	VolMAX	
4(3)	3	А	VolMIN	
5(4)	3	В	VolMAX	
	4	А	-	START
	4	В	BOOST OFF	STOP/RESET



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16. Use some reels for preset (R10 only)

If a MPDM is flashed to MPDM10010 version it can be configured to use port 1 and 2 or 3 and 4 or both pairs for preset functionality. In this example we will set the pair port 1 and 2.

Set "Input B as a trigger" on port 1 and 2

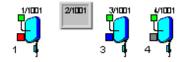
Set all the other parameters except MinVol and MaxVol to 0/disabled on Port 2

Like this.

Group: All IV A IV B IV C IV C Mask: IV Validate user IV Use external user v IV Use external user v V Validate job number IV Use external lark v V Validate job number IV Use external lark v V Use puts compensation IV Use external lark v V Use puts compensation IV Use puts compensation Use 2-signal meter Count down Count down Timeout: 1 Nouline Factory PPU: 328.0000 Factory Basic vo Max volume: 0.50 Factory Basic vo DB Address: 2939 Sec DB Address: 0000 DMS co					1	0 100	0M10	_	ies or	ort1 proper
None V E V V E E E E Mask: V Validate bor number V Use external tuse v V Validate bor number V Use external tuse v V Validate poly number V Use external tuse v V Use pute compensation V Use external top vs V Use pute compensation V Use ports as trigge Luse 2-signal meter Count down Count down Timeout: 1 Factory PPU: 328 0000 Fadicas Max volume: 0.50 Fadicas DB Address: 2393 Sec DB Address: 0000	JК	OK						þ		ReelNumber:
Validate job rumber Use external job va Pequie volume Use external job va Pequie volume Use external job va Use puls compensation Use PortB as trigge Use puls compensation Use PortB as trigge Cyclic dispense mode Dual/Quadra pulse Timeout: 1 PPU: 328 0000 Min volume: 0.50 Max volume: 1.00 DB Address: 2393 Sec DB Address: 0000	ncel	Cancel								Group:
Use 2-signal meter Dual/Quadra pulse Cyclic dispense mode Count down Timeout: 1 PPU: 328.0000 Min volume: 0.50 Max volume: 1.00 DB Address: 2399 Sec DB Address: 0000	idation	nal job validatio	Jse externa	7			job n	lidate	🔽 Va	Mask:
Timeout: 1 Factory PPU: 328.0000 Basic va Min volume: 0.50 Full vali Max volume: 1.00 DMS of DB Address: 2939 Sac DB Address: 0000		adra pulse count)ual/Quadr			eter	gnal n	e 2-si	🗌 Us	
PPU: 328.0000 Basic va Min volume: 0.50 Full vali Max volume: 1.00 DMS of DB Address: 2399 Sec DB Address: 0000	tings	Quick settings	_ Q							
Min volume: 0.50 Full vali Max volume: 1.00 DMS of DB Address: 2939 Sec DB Address: 0000	default	Factory defaul	F					1		Timeout:
Max volume: 1.00 DB Address: 2393 Sec DB Address: 0000 DMS c	idation	Basic validatio	В					.0000	328	PPU:
DB Address: 2999 Sec DB Address: 0000 DMS c	dation	Full validation						0.50		Min volume:
	nline	DMS online						1.00		Max volume:
LED Address 4001 Decimals 2 Indus	ffline	DMS offline	000		ss:	Addre	ec DB	99 S	29	DB Address:
EED Addicas. 1001 Docimidis. E	trial	Industrial	2	Г	als:	Decim		01	40	LED Address:
TankNo: 1 Disa	le	Disable						1		TankNo:

Port2 properties on MPDM100 10 BeelNumber: OK Group: Cancel None Use external user validation Use external job validation Use external tank validation Mask ✓ Use PortB as trigge Use puls compensation Dual/Quadra pulse count Use 2-signal meter Cyclic dispense mode Count dow Quick settings Timeout Factory default PPU: 0.0000 Basic validation Min volume 2.00 Full validation Max volume 3.00 DMS online DB Address: 0000 Sec DB Address: 0000 DMS offline LED Address: 0000 Decimals: Π Industrial TankNo: Disable

Then reboot the module and the result will be this.



Now pulling

Port 1 input B to low will start a dispense of 1 L on reel 1.

Port 2 input A to low will start a dispense of 2 L on reel 1.

Port 2 input B to low will start a dispense of 3 L on reel 1.

Reels 3 and 4 will work as standard reels

If both pulse trains from a meter ("Use 2-signal meter") are used input B on the reel port cannot be used for preset so then there will only be 2 possible presets. The same can be done with the port 3 and 4 so here are the other possibilities.



17. Updating the PC computer

The OriLink® WinTools software is based on standard Microsoft® software components such as DCOM, MFC6.2, MDAC and MSJET. This is done to simplify integration between OriLink® and other Windows® software. It also reduces the dedicated program code for OriLink® which reduces possible software errors.

It is recommended to update the OS to the latest level. Dependant of which OS and other software and how they are installed some standard components may be missing or incomplete.

By updating (patching) the Operating system, the OS, of the PC the risk of having error in these and other components is minimised.

18. Patch the OS to the latest version

The OS of the PC can be updated in several different ways. The easiest way is through the Internet. If the PC is not connected to the Internet it can be done through a CD.

It is not possible for us, Alentec & Orion AB, to have the updates on the OriLink® WinTools CD because the updates are from Microsoft® and language specific.

All Windows® OS can be updated with the correct version automatically through "windowsupdate.microsoft.com". Windows 98 and later has a shortcut to this web site with a name like "Windows Update" in the Start-menu.

Windows® 2000 /XP and later can be set-up for automatic updating.

The updates can also be downloaded from the web and put on a CD for use on computers without Internet connection. This can be done from http://www.microsoft.com/technet/treeview/default.asp

19. Install / Update MDAC

The MDAC (Microsoft Data Access Component) is a standard software package for database access that many different database software's uses. For example it is normally installed when installing Microsoft Office and in many cases together with the OS. Version.

20. Install / Update MSJET

The MSJET (Microsoft JET) is a software package with ODBC drivers for several different databases such as SQL, ACCESS, PARADOX, FOXBORO, etc. It is normally installed when installing Microsoft Office and in many cases together with the OS. Version 4.0SP8 English and Swedish version can be found on the CD

DRILINK®

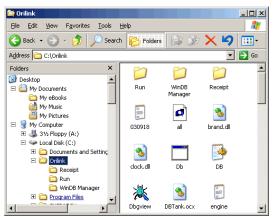
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21. Show hidden files and extensions

When you want to work with files from the Windows Explorer sometimes the file extensions (.XXX) are hidden. This is due to the fact that file extensions for registered file types are hidden as default in Windows.

Changing folder options can change this. Folder options are changed a little different depending on the Windows version (9X/NT/2K/XP). Below is a description of how to do this in Windows XP.

First open Windows Explorer and browse to *C:\OriLink*.



The default looks like this.

Folder Options
General View File Types Offline Files
Folder views You can apply the view (such as Details or Tiles) that you are using for this folder to all folders. Apply to All Folders Beset All Folders
Advanced settings:
Files and Folders Files and Folders Files and Folders Files and Folders Folders Files are information in folder tipe Files are information in folder tipe Files are information in folder tipe Files are information in the delayes bar Files and folders Files and folders O not ache thumbnails O not ache thumbnails O Do not ache thumbnails O Show hidden files and folders O Show hidden files and folders O Show hidden files and folders Files and folders Hide extensions for known file types ▼
Restore <u>D</u> efaults
OK Cancel Apply





Then select Tools -> Folder Options.



Check "Display the full path in the titlebar" and "Show hidden files and folders". Uncheck "Hide extensions for known file types". Like this,

Folder Options
General View File Types Offline Files
Folder views You can apply the view (such as Details or Tiles) that you are using for this folder to all folders. Apply to All Folders Beset All Folders
Advanced settings:
Files and Folders Automatically search for network folders and printers Display life size information in folder tips Display imple folder view in Explorer's Folders list Display the contents of system folders Display the contents of system folders Display the contents of system folders Display the up and in the address bar Do not cache thumbnails Dinchen files and folders O D on to thow hidden files and folders Do not how hidden files and folders Display the up and in the address Do not cache support Do not cache thumbnails Hidde nifes and folders Display the up and moders Display the up and the up and the up the up and the up th
Restore <u>D</u> efaults
OK Cancel Apply

Now you can see all files and file extensions.

When you are finished with the files you can do the same thing backwards to restore it as it was before.