

# OriLink<sup>®</sup>

**POWERFUL  
FLUID MANAGEMENT  
SYSTEM FOR INCREASED  
PROFITABILITY IN WORKSHOPS  
AND INDUSTRIES**



### FIVE QUICK FACTS

1. Income loss due to incorrect stock control of fluids is often neglected
2. All workshops have unaccounted fluid loss
3. Average fluid loss is about 10%
4. When the fluid loss is discovered it has already affected income
5. Better control of fluids leads to higher profit

### WHY DO YOU NEED A FLUID MONITORING SYSTEM?

#### Why are not oil and expensive fluids handled as other spare parts?

Can YOU be sure that your current system correctly invoices every litre of oil?

Example: a workshop consumes 300 litres of oil per month. Based on a sales price of € 25/litre the yearly turnover is € 90000.

The maximal profit will only occur IF all oil is accounted and invoiced for.

This example highlights that every litre of oil that is not invoiced is a loss of € 25.

### CALCULATION EXAMPLE

#### Calculation example based on 3600 litres oil/year

| Estimated oil loss | Oil loss | Lost income/year |
|--------------------|----------|------------------|
| 5%                 | 180 L    | € 4 500          |
| 10%                | 360 L    | € 9 000          |
| 15%                | 540 L    | € 13 500         |

### WHAT DO YOU GAIN WITH A FLUID MONITORING SYSTEM?

|                               |   |
|-------------------------------|---|
| <b>Quality assurance</b>      | Vehicle is filled with correct fluid as specified for maximum performance   |
| <b>Security</b>               | Unauthorized dispense eliminated. Only active authorized work order and PIN are valid for dispense (DMS/ERP integration needed) |
| <b>Increased efficiency</b>   | Dispensed volume is automatically registered on the Work order (DMS/ERP integration needed)                                     |
| <b>Increased profit</b>       | Get paid for the correct volume dispensed   |
| <b>Environmental benefit</b>  | Reduces overconsumption as vehicle is filled with manufacturer's specified fluid and volume                                     |
| <b>Optimized profit</b>       | Top-ups are registered and invoiced   |
| <b>Environmental security</b> | Reduces risk for spillage and leakage as system is not pressurized when it is not in-use  |
| <b>Correct stock value</b>    | Complete control of stock in tanks and drums (tank sensor required)   |
| <b>Short payback-time</b>     | Short time to reach profit of total investment  |



### ADMINISTRATION BENEFITS

#### DMS/ERP Integration

Before dispense of fluid can start, the work order must be validated in the system. After dispensing fluid, the transaction data is automatically sent and added to the invoice. Today we have developed integrations to about 140 different DMS/ERP systems worldwide. This means that we already have many DMS-connections that we can deliver for immediate implementation and operation.

#### Control of fillings

All fluids are registered and saved safely in a database.

#### Control of stock levels

Automatic level sensors measures and updates tank volumes. If automatic sensors are not used, tank levels are calculated by subtracting the volumes dispensed in the system.

#### Email message of stock levels

Automatic email report of tank levels. Reported periodically or when a set level is reached in a tank. Email can be sent to several accounts, so that stock managers and oil suppliers can be informed.

#### Management and report data

Many reports are available, for example:

- Who has used the system, showing filled volume and when
- Consumption of fluids during a selected period
- Historical stock levels



### ADVANCED TECHNOLOGY

#### Modules with intercommunication

System modules communicate with each other in a stable internal loop, no risk for external disturbances.

#### PC control

Input data of all parameters, like users, tanks, work orders, user groups etc in a central database.

#### Support for external card readers and RFID

Easy to input data with external readers. Reduces errors and increases security. Common applications include:

- Bar code reading of work order
- Magnetic card reading of user identification
- RFID tag reading of user identification

#### Control all types of fluids

We supply a broad range of pumps and measuring devices in different materials, such as aluminium, stainless steel and PVC (for different pressure classes). Within our product range we can thereby handle many fluids, for example:

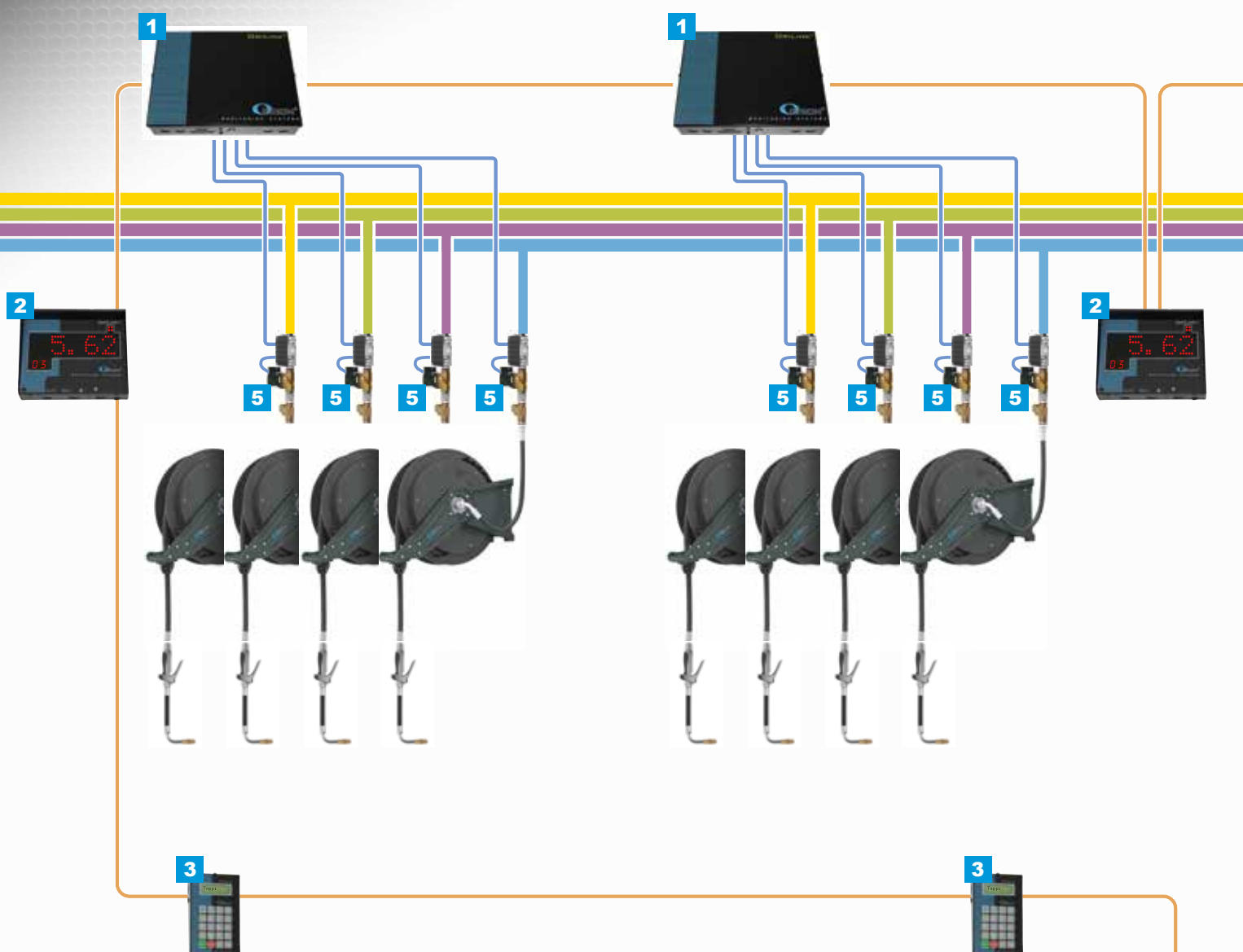
- Oils of different thickness/viscosities
- Chemicals like windscreen fluids, coolants/antifreeze and AdBlue®
- Greases

#### Supports PLC-functions for the industry

Possible to build and support powerful functions for dosing of fluids. Possible to control start and stop sequence by adding external buttons. Options of different output signals to show status, like OK and Error on lamps, or directly in an external system.



## SCHEMATIC SYSTEM VIEW – OriLink® FLUID MONITORING SYSTEM

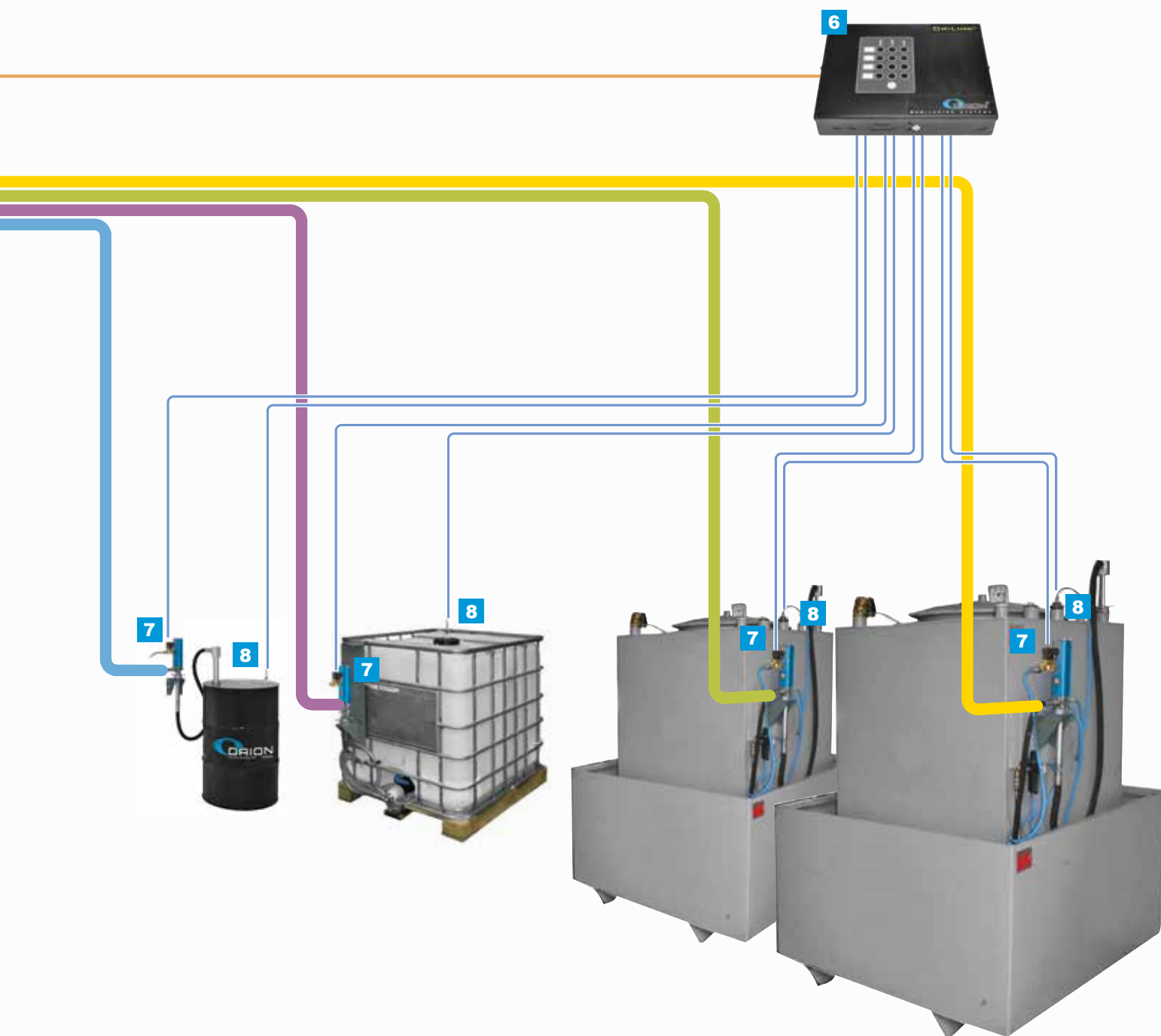


### SYMBOL DESCRIPTIONS

EN

| POS | PART NO     | ITEM NAME                     | DESCRIPTION   |
|-----|-------------|-------------------------------|---|
| 1   | 23400       | OriLink® Main Dispense Module | Measures, opens and closes fluid dispenses by connected meter & solenoid (max 4 per module) |
| 2   | 23404       | OriLink® LED Display          | Shows filled volume (or tank volume)  |
| 3   | 23401       | OriLink® Keypad               | Used to open system by PIN number and Workorder number                                      |
| 4   | 23403       | OriLink® PC Interface         | Connects system to PC and enables DMS/ERP integration                                       |
| 5   | SPEC2290*   | Meter and solenoid valve kit  | Measures and opens/closes dispense  |
| 6   | 23408/23430 | OriLink® Tank module          | Controls tank switches/sensors and air solenoid valves to pumps (max 4 per module)          |
| 7   | 48059*      | Air solenoid valve            | Open and closes air supply to pump  |
| 8   | 23417*      | Level sensor                  | Monitors tank levels and prevents pumps from running dry                                    |
|     | 23393*      | Signal cable                  | Connects meter and solenoid valves to dispense or tank module                               |
|     | 23411       | Communication cable           | Connects modules in a serial loop as a controlled system                                    |

\* Several models available. Choose the correct model based on application.



Can be controlled via  
PC, tablet or  
smartphone (option)



#### Connection to external DMS/ERP:

- Standardized connections available for quick and easy installation/configuration
- Customized connections for workshops and industries (dosing and dispense logics with many dispenses simultaneously including start/stop and lamps for ok & error signals)

## SYSTEM COMPONENTS

### Main Module (MPDM)

Each MPDM has connections to control up to four solenoid valves and is equipped with a key switch with normal operation, emergency over-ride and On/Off functions. Suitable for meter units with flow direction function. 230 VAC power supply required

Part No

23400



### Keypad

To be installed in the workshop in order to give the operator access to the system using a personal ID-code. 2 x 16 character LCD screen. External reader for bar codes, magnet card or RFID can be used (prepared Keypad is required).

Keypad

Keypad for panel mounting

Keypad for external readers

Transparent protection cover for 23401, 23442

Wall bracket for Keypad

23401

23441

23442

23261

23260



23401, 23442

23261

23441



23260



### External readers for Keypad

Enables input via bar codes, magnet stripe cards or RFID (MIF). Connects to Keypad 23442.

Bar code reader

Magnet card reader

Tag reader (RFID/MIF)

23407

23409

23445



23407

23409



23445



### Web/PC based Keypad

An interface which enables dispenses to be started and stopped from a web browser on a PC, tablet or smartphone. Internet connection required. A local off-line solution can also be achieved, then only available on PC.

Keypad web app license

Keypad PC license

23432

23431



### Communication adapter PC-interface

For connecting the system to a PC. Can also be used as a line amplifier when the communication cable is longer than 2.000m.

PC Interface

Software license "Professional"

23403

23414



### LED Display

Display with 40 mm digits. Displays the dispensed volume. When equipped with a clock module or PC-connected it shows the time when the system is not in use. One extra port for a solenoid valve.

Can be used as tank level display together with 23408 or 23430.

23404



### Tank Module

The module has 4 ports for solenoid valves, level sensors or automatic level sensors (analogue). Used to control solenoid valves to start and stop pumps. Level sensors with one (stop) or two (alarm and stop) levels shuts off the pump if the level becomes low to prevent dry pumping. Can also be used for waste oil level monitoring for maximum two solenoid valves (1,25A). 230 VAC power supply required.

Tank Module

Tank Control Module with external indicators and test button

23408

23430

23408



23430





## SYSTEM COMPONENTS

### Line Meter kits for Oil & Antifreeze

Line Meters with solenoid valves. Indicates open valve. Strainer part no 28022 included in SPEC2290. Models available with 5m pre-wired cable.

| Description   | Max. Pressure                    | Conn.<br>thread | Positions<br>included |
|---|----------------------------------|-----------------|-----------------------|
|   | Pulses                           |                 |                       |
| Meter for oil 25060 and solenoid valve 28127              | 5 MPa (50 bar)<br>328 pulses/l   | G1/2" (m)       | 1-15                  |
| Approvable meter and solenoid valve 28306                 | 5 MPa (50 bar)<br>328 pulses/l   | G1/2" (m)       | 1-15                  |
| Meter for oil 25065 and solenoid valve 28306              | 2,5 MPa (25 bar)<br>109 pulses/l | G3/4" (m)       | 1-15                  |
| Meter for oil with integrated solenoid valve and strainer | 10 MPa (100 bar)<br>328 pulses/l | G1/2" (m/f)     |                       |

Part No

SPEC2290

SPEC2294

SPEC2293

29830

SPEC2290



SPEC2293



29830



### Line Meter Kits for Windscreen Fluid, AdBlue®

Line Meter with solenoid valve. Indicates open valve.

| Description                | Max. Pressure  | Conn.<br>thread | Material        |
|----------------------------|----------------|-----------------|-----------------|
|                            | Pulses         |                 |                 |
| Meter for windscreen fluid | 5 Mpa (50 bar) |                 | Stainless steel |
| Solenoid valve included    | 328 pulses/l   | G1/2" (m)       |                 |
| Meter for AdBlue®          | 1 Mpa (10 bar) |                 | Stainless steel |
| Solenoid valve included    | 328 pulses/l   | G1/2" (m)       |                 |

SPEC7291

SPEC7293

SPEC7291



SPEC7293



### Line Meter Kit for Diesel

Line Meter with solenoid valve.

| Description                   | Max. Pressure    | Conn.<br>thread | Seals |
|-------------------------------|------------------|-----------------|-------|
|                               | Pulses           |                 |       |
| H.V. Meter 25065              | 1,0 Mpa (10 bar) | G3/4" (m)       | Viton |
| solenoid valve 28308 included | 109 pulses/l     |                 |       |

SPEC2292



### Line Meter Kit for Grease

Meter kit for grease dosing applications. Solenoid valve included.

| Description           | Max. Pressure      | Conn.<br>thread |
|-----------------------|--------------------|-----------------|
|                       | Pulses             |                 |
| Line Meter for Grease | 30 Mpa (300 bar)   | G1/4" (f)       |
| incl. solenoid valve  | 1.450 pulses/liter |                 |

SPEC1290



### Level Switch, 60, 200 l drums & 1.000 l tanks

Switch on/off when the liquid level is appr. 30 mm from the bottom. 24 V DC 1 A. Fits in the drums 3/4" thread. Max height of container 1.080 mm.

#### Description

Level switch, low level stop, for oil  
 Level switch, low level stop, for alcohols and similar  
 2-Level switch, low level stop and warning at 300mm, for oil  
 2-Level switch, low level stop and warning at 300mm, for alcohols and similar  
 Level switch for tanks, cable length = 5m, G2" (m)  
 2-Level switch for tanks, cable length = 2m

Over filling protection switch for waste oil tanks. Warns at 300mm, stops at 150mm

Over filling protection switch for waste oil tanks. Warns at 450mm, stops at 300mm

23171

23183

23191

23192

2330287

23193

23132

23154

23171



23193



53132



### Tank level sensor, Automatic

Tank level sensor which continuously measures the volume inside the tank and updates corresponding tank in OriLink®. Connects to tank module 23408 or 23430.

#### Description

4-20 mA Tank level sensor for tanks up to 4m  
 4-20 mA Tank level sensor for drums and IBC (1m)  
 4-20 mA Tank level sensor for windscreen fluid, tanks up to 3,5m

23417

23435

23437





**WE PROVIDE  
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