

## SINGLE READING DIGITAL SYSTEM

Digital controllers for measurement and control of a single parameter, with temperature reading (°C or °F).

An accurate design has allowed to build on a series of instrument easy to program.

LDS and LDS PLUS series are controlled by an "ENCODER".

Working mode can be set:

- on / off
- pulse proportional \*
- proportional PWM \*
- fixed PWM \*
- PID (only on LDS PLUS).

Instruments connected in a network (up to 31 instruments) can be remotely controlled.

Combined with probes and probe holders, they can be assembled on panels to have a complete turnkey control system.

\* not on LDSTORBH.



R3-06-20

#### REMOTE CONTROL

Remote control is available with ETHERNET or GSM/GPRS configurations.

Remote control via: [www.ermes-server.com](http://www.ermes-server.com).

#### SOFTWARE

English and French software available. Ask for Deutsch.

#### CUSTOMIZATION

Instruments can be customized with client logo on frontal panel.

#### STAND-BY AND FLOW CONTROL INPUT

#### PERMANENT DATA STORAGE (WITHOUT BATTERY)

System log on display.

#### AUTOMATIC TEMPERATURE COMPENSATION

With PT100 temperature probe.

#### DELAY

Programmable delay at dosing start-up (up to 60 minutes).

#### ALARMS

Alarms for: damaged probe; max dosage, flow, threshold, level (double level on LDS PLUS).

#### DISPLAY

Probe readings, alarms notification, network status (Ethernet; USB, GSM/GPRS) are shown on display.

#### PROBE READOUT MENU

#### mA OUTPUT

As option.

#### WiFi Remote Control

As option.

#### ONLY FOR LDS PLUS

#### PROBE CLEANING

To obtain reliable results it is possible to connect a cleaning system, for example a probe cleaning system.

#### CIRCULATION PUMP

This function allows to supply a water circulation pump into the intake pipeline, increasing pressure.

#### MODBUS

Modbus is a serial communication protocol for connecting instruments to other devices on RS485 network. Available as standard on LD models, as option on LD PLUS.

#### mA WATER METER INPUT

As option.

#### ALARM RELAIS

230 VAC output alarm.

#### DOUBLE SETPOINT

Relais set for 2 setpoint.

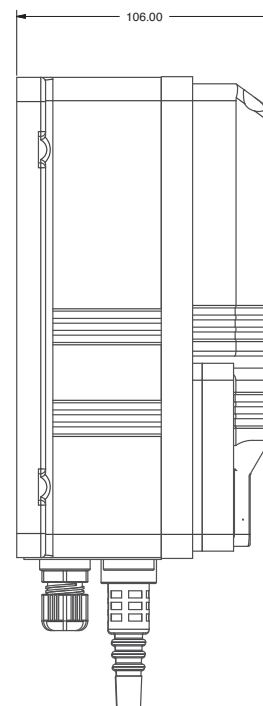
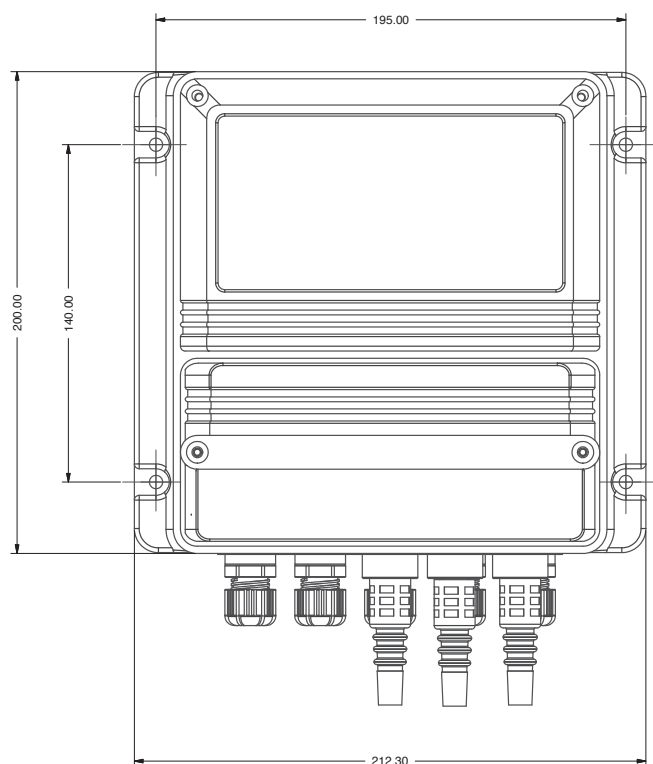
#### mA OUTPUT

## SINGLE READING DIGITAL SYSTEM

## MODELS

| STANDARD  | PLUS           | PARAMETER                                      |
|-----------|----------------|------------------------------------------------|
| LDSPH     | LDSPH PLUS     | pH                                             |
| LDSRH     | LDSRH PLUS     | ORP                                            |
| LDSCS     | LDSCS PLUS     | Chlorine (chlorine measure based on the probe) |
| LDSCD     | LDSCD PLUS     | Conductivity                                   |
| LDSCDIND  | LDSCDIND PLUS  | Inductive conductivity (ECDINDPT probe)        |
| LDSTORBH  | LDSTORBH PLUS  | Turbidity (ETORBH probe)                       |
| LDSETORB2 | LDSETORB2 PLUS | Turbidity (ETORB2 probe)                       |
| LDSDO     | LDSDO PLUS     | Dissolved Oxygen (EOLUM probe)                 |
| LDSTRC    | LDSTRC PLUS    | Tracers (ETRC probe)                           |
| LDSFL     | LDSFL PLUS     | Fluorine                                       |

## DIMENSIONS mm



## SINGLE READING DIGITAL SYSTEM

## LDSPH - LDSPH PLUS

|                          | LDSPH                                                                                                                                                                                                                                                      | LDSPH PLUS                                                                                                                                                                                                                                                                                                         |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEASURING PARAMETER      | pH                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                    |
| RANGE                    | 0-14 pH; resolution: 0,01                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                    |
| TEMPERATURE COMPENSATION | PT100                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                    |
| CONTROL                  | /                                                                                                                                                                                                                                                          | PID                                                                                                                                                                                                                                                                                                                |
| INPUT SIGNAL             | PCB                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| POWER SUPPLY             | 240VAC 50/60Hz ; 12 or 24VDC (specify on order)                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                    |
| AVERAGE CONSUMPTION      | 25 W                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                    |
| ON/OFF OUTPUT            | 2 relays; 5A @ 230 VAC (fuse protected)                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                    |
| ALARM OUTPUT             | (same as power supply) alarm output                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| INPUT                    | Stand-by<br>Flow<br>pH level<br>pH probe<br>Temperature probe                                                                                                                                                                                              | Stand-by<br>Flow<br>pH level<br>pH probe<br>Temperature probe<br>Water meter<br>mA water meter <sup>1</sup>                                                                                                                                                                                                        |
| OUTPUT                   | 1 relay output (pH)<br>1 Opto coupled output (pH)<br>2 mA output (pH & Temperature) <sup>1</sup><br>Alarm output (relay)                                                                                                                                   | 2 relay output (pH)<br>2 Opto coupled output (pH)<br>1 relay output for probe cleaning<br>1 relay output for circulating pump<br>3 mA output (pH & Temperature, PID)<br>Alarm output (relay)                                                                                                                       |
| ENVIRONMENT TEMPERATURE  | -10°C ... 50°C (14°F ... 122°F)                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                    |
| PROTECTION               | IP65 - % working RH: 85% with ≤40 °C; 70% at 50 °C (non condensing)                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| POLLUTION LEVEL          | 2                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                    |
| ENCLOSURE                | ABS                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| TEST/CERTIFICATION       | CE                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                    |
| DIMENSIONS               | refer to the drawing                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                    |
| WEIGHT                   | 1,45 kg (3.1967 lb)                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| INSTALLATION             | vertical wall (4 fixing holes)                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                    |
| OPTIONS <sup>1</sup>     | <ul style="list-style-type: none"> <li>• mA output</li> <li>• 12 or 24VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET or WIFI configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> </ul> | <ul style="list-style-type: none"> <li>• mA water meter input</li> <li>• 12 or 24VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET or WIFI configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> <li>• Modbus configuration <sup>2</sup></li> </ul> |

<sup>1</sup> On request<sup>2</sup> For configuration features refer to the table at the end of the document.

## SINGLE READING DIGITAL SYSTEM

## LDSFL - LDSFL PLUS

|                          | LDSFL                                                                                                                                                                                                                                                      | LDSFL PLUS                                                                                                                                                                                                                                                                                                         |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEASURING PARAMETER      | Fluorine                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                    |
| RANGE                    | 0-3 ppm; resolution: 0,01                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                    |
| TEMPERATURE COMPENSATION | PT100                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                    |
| CONTROL                  | /                                                                                                                                                                                                                                                          | PID                                                                                                                                                                                                                                                                                                                |
| INPUT SIGNAL             | PCB                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| POWER SUPPLY             | 240VAC 50/60Hz ; 12 or 24VDC (specify on order)                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                    |
| AVERAGE CONSUMPTION      | 25 W                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                    |
| ON/OFF OUTPUT            | 2 relays; 5A @ 230 VAC (fuse protected)                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                    |
| ALARM OUTPUT             | (same as power supply) alarm output                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| INPUT                    | Stand-by<br>Flow<br>FL level<br>FL probe<br>Temperature probe                                                                                                                                                                                              | Stand-by<br>Flow<br>FL level<br>FL probe<br>Temperature probe<br>Water meter<br>mA water meter <sup>1</sup>                                                                                                                                                                                                        |
| OUTPUT                   | 1 relay output (FL)<br>1 Opto coupled output (FL)<br>2 mA output (FL & Temperature) <sup>1</sup><br>Alarm output (relay)                                                                                                                                   | 2 relay output (FL)<br>2 Opto coupled output (FL)<br>1 relay output for probe cleaning<br>1 relay output for circulating pump<br>3 mA output (FL & Temperature, PID)<br>Alarm output (relay)                                                                                                                       |
| ENVIRONMENT TEMPERATURE  | -10°C ... 50°C (14°F ... 122°F)                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                    |
| PROTECTION               | IP65 - % working RH: 85% with ≤40 °C; 70% at 50 °C (non condensing)                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| POLLUTION LEVEL          | 2                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                    |
| ENCLOSURE                | ABS                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| TEST/CERTIFICATION       | CE                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                    |
| DIMENSIONS               | refer to the drawing                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                    |
| WEIGHT                   | 1,45 kg (3.1967 lb)                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| INSTALLATION             | vertical wall (4 fixing holes)                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                    |
| OPTIONS <sup>1</sup>     | <ul style="list-style-type: none"> <li>• mA output</li> <li>• 12 or 24VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET or WIFI configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> </ul> | <ul style="list-style-type: none"> <li>• mA water meter input</li> <li>• 12 or 24VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET or WIFI configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> <li>• Modbus configuration <sup>2</sup></li> </ul> |

<sup>1</sup> On request<sup>2</sup> For configuration features refer to the table at the end of the document.

## SINGLE READING DIGITAL SYSTEM

## LDSRH - LDSRH PLUS

|                          | LDSRH                                                                                                                                                                                                                                                      | LDSRH PLUS                                                                                                                                                                                                                                                                                                         |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEASURING PARAMETER      | ORP                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| RANGE                    | 0-1000 mV; resolution: 0,1                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                    |
| TEMPERATURE COMPENSATION | /                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                    |
| CONTROL                  | /                                                                                                                                                                                                                                                          | PID                                                                                                                                                                                                                                                                                                                |
| INPUT SIGNAL             | PCB                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| POWER SUPPLY             | 240VAC 50/60Hz ; 12 or 24VDC (specify on order)                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                    |
| AVERAGE CONSUMPTION      | 25 W                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                    |
| ON/OFF OUTPUT            | 2 relays; 5A @ 230 VAC (fuse protected)                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                    |
| ALARM OUTPUT             | (same as power supply) alarm output                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| INPUT                    | Stand-by<br>Flow<br>ORP level<br>ORP probe<br>Temperature probe                                                                                                                                                                                            | Stand-by<br>Flow<br>ORP level<br>ORP probe<br>Temperature probe<br>Water meter<br>mA water meter <sup>1</sup>                                                                                                                                                                                                      |
| OUTPUT                   | 1 relay output (ORP)<br>1 Opto coupled output (ORP)<br>2 mA output (mV & Temperature) <sup>1</sup><br>Alarm output (relay)                                                                                                                                 | 2 relay output (mV)<br>2 opto coupled output (mV)<br>1 relay output for probe cleaning<br>1 relay output for circulating pump<br>3 mA output (mV & Temperature, PID)<br>Alarm output (relay)                                                                                                                       |
| ENVIRONMENT TEMPERATURE  | -10°C ... 50°C (14°F ... 122°F)                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                    |
| PROTECTION               | IP65 - % working RH: 85% with ≤40 °C; 70% at 50 °C (non condensing)                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| POLLUTION LEVEL          | 2                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                    |
| ENCLOSURE                | ABS                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| TEST/CERTIFICATION       | CE                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                    |
| DIMENSIONS               | refer to the drawing                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                    |
| WEIGHT                   | 1,45 kg (3.1967 lb)                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| INSTALLATION             | vertical wall (4 fixing holes)                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                    |
| OPTIONS <sup>1</sup>     | <ul style="list-style-type: none"> <li>• mA output</li> <li>• 12 or 24VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET or WIFI configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> </ul> | <ul style="list-style-type: none"> <li>• mA water meter input</li> <li>• 12 or 24VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET or WIFI configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> <li>• Modbus configuration <sup>2</sup></li> </ul> |

<sup>1</sup> On request<sup>2</sup> For configuration features refer to the table at the end of the document.

## SINGLE READING DIGITAL SYSTEM

## LDSCL - LDSCL PLUS

|                          | LDSCL                                                                                                                                                                                                                                                      | LDSCL PLUS                                                                                                                                                                                                                                                                                                         |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEASURING PARAMETER      | Chlorine                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                    |
| RANGE                    | 0-10 mg/l                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                    |
| TEMPERATURE COMPENSATION | /                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                    |
| CONTROL                  | /                                                                                                                                                                                                                                                          | PID                                                                                                                                                                                                                                                                                                                |
| INPUT SIGNAL             | PCB                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| POWER SUPPLY             | 240VAC 50/60Hz ; 12 or 24VDC (specify on order)                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                    |
| AVERAGE CONSUMPTION      | 25 W                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                    |
| ON/OFF OUTPUT            | 2 relays; 5A @ 230 VAC (fuse protected)                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                    |
| ALARM OUTPUT             | (same as power supply) alarm output                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| INPUT                    | Stand-by<br>Flow<br>Chlorine level<br>Chlorine probe<br>Temperature probe                                                                                                                                                                                  | Stand-by<br>Flow<br>Chlorine probe<br>Chlorine level<br>Temperature probe<br>Water meter<br>mA water meter <sup>1</sup>                                                                                                                                                                                            |
| OUTPUT                   | 1 relay output (CI)<br>1 Opto coupled output (CI)<br>2 mA output (CI & temperature) <sup>1</sup><br>Alarm output (relay)                                                                                                                                   | 2 relay output (CI)<br>2 opto coupled output (CI)<br>1 relay output for probe cleaning<br>1 relay output for circulating pump<br>3 mA output (CI & temperature, PID)<br>Alarm output (relay)                                                                                                                       |
| ENVIRONMENT TEMPERATURE  | -10°C ... 50°C (14°F ... 122°F)                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                    |
| PROTECTION               | IP65 - % working RH: 85% with ≤40 °C; 70% at 50 °C (non condensing)                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| POLLUTION LEVEL          | 2                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                    |
| ENCLOSURE                | ABS                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| TEST/CERTIFICATION       | CE                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                    |
| DIMENSIONS               | refer to the drawing                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                    |
| WEIGHT                   | 1,45 kg (3.1967 lb)                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| INSTALLATION             | vertical wall (4 fixing holes)                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                    |
| OPTIONS <sup>1</sup>     | <ul style="list-style-type: none"> <li>• mA output</li> <li>• 12 or 24VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET or WIFI configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> </ul> | <ul style="list-style-type: none"> <li>• mA water meter input</li> <li>• 12 or 24VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET or WIFI configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> <li>• Modbus configuration <sup>2</sup></li> </ul> |

<sup>1</sup> On request<sup>2</sup> For configuration features refer to the table at the end of the document.

## SINGLE READING DIGITAL SYSTEM

## LDSCD - LDSCD PLUS

|                          | LDSCD                                                                                                                                                                                                                                                      | LDSCD PLUS                                                                                                                                                                                                                                                                                                         |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEASURING PARAMETER      | Conductivity with temperature reading (°C or °F)                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                    |
| RANGE                    | 0 - 300,0 µS<br>0 - 3000 µS<br>0 - 30,00 mS<br>0 - 300,0 mS                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                    |
| TEMPERATURE COMPENSATION | PT100                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                    |
| CONTROL                  | /                                                                                                                                                                                                                                                          | PID                                                                                                                                                                                                                                                                                                                |
| INPUT SIGNAL             | PCB                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| POWER SUPPLY             | 240VAC 50/60Hz ; 12 or 24VDC (specify on order)                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                    |
| AVERAGE CONSUMPTION      | 25 W                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                    |
| ON/OFF OUTPUT            | 2 relays; 5A @ 230 VAC (fuse protected)                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                    |
| ALARM OUTPUT             | (same as power supply) alarm output                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| INPUT                    | Stand-by<br>Flow<br>Conductivity probe<br>Temperature probe                                                                                                                                                                                                | Stand-by<br>Flow<br>Conductivity probe<br>Temperature probe<br>Water meter<br>mA water meter <sup>1</sup>                                                                                                                                                                                                          |
| OUTPUT                   | 2 relay output (Conductivity and alarm)<br>2 mA output (Conductivity and temperature) <sup>1</sup><br>Alarm output (relay)                                                                                                                                 | 2 relay output (Conductivity)<br>2 opto coupled output (Conductivity)<br>1 relay output for probe cleaning<br>1 relay output for circulating pump<br>3 mA output (Conductivity and temperature, PID)<br>Alarm output (relay)                                                                                       |
| ENVIRONMENT TEMPERATURE  | -10°C ... 50°C (14°F ... 122°F)                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                    |
| PROTECTION               | IP65 - % working RH: 85% with ≤40 °C; 70% at 50 °C (non condensing)                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| POLLUTION LEVEL          | 2                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                    |
| ENCLOSURE                | ABS                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| TEST/CERTIFICATION       | CE                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                    |
| DIMENSIONS               | refer to the drawing                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                    |
| WEIGHT                   | 1,45 kg (3.1967 lb)                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| INSTALLATION             | vertical wall (4 fixing holes)                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                    |
| OPTIONS <sup>1</sup>     | <ul style="list-style-type: none"> <li>• mA output</li> <li>• 12 or 24VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET or WIFI configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> </ul> | <ul style="list-style-type: none"> <li>• mA water meter input</li> <li>• 12 or 24VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET or WIFI configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> <li>• Modbus configuration <sup>2</sup></li> </ul> |

<sup>1</sup> On request<sup>2</sup> For configuration features refer to the table at the end of the document.

## SINGLE READING DIGITAL SYSTEM

## LDSCD IND - LDSCD IND PLUS

|                          | LDSCD IND                                                                                                                                                                                                                                                  | LDSCD IND PLUS                                                                                                                                                                                                                                                                                                     |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEASURING PARAMETER      | Inductive conductivity with temperature reading (°C or °F)                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                    |
| RANGE                    | 0 - 3000 µS<br>0 - 30,00 mS<br>0 - 300,0 mS                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                    |
| TEMPERATURE COMPENSATION | PT100                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                    |
| CONTROL                  | /                                                                                                                                                                                                                                                          | PID                                                                                                                                                                                                                                                                                                                |
| INPUT SIGNAL             | PCB                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| POWER SUPPLY             | 240VAC 50/60Hz ; 12 or 24VDC (specify on order)                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                    |
| AVERAGE CONSUMPTION      | 25 W                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                    |
| ON/OFF OUTPUT            | 2 relays; 5A @ 230 VAC (fuse protected)                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                    |
| ALARM OUTPUT             | (same as power supply) alarm output                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| INPUT                    | Stand-by<br>Flow<br>Sonda conducibilità<br>Temperature probe                                                                                                                                                                                               | Stand-by<br>Flow<br>Sonda conducibilità<br>Temperature probe<br>Water meter<br>mA water meter <sup>1</sup>                                                                                                                                                                                                         |
| OUTPUT                   | 2 relay output (Conductivity and alarm)<br>2 mA output (Conductivity and temperature) <sup>1</sup><br>Alarm output (relay)                                                                                                                                 | 2 relay output (Conductivity)<br>2 opto coupled output (Conductivity)<br>1 relay output for probe cleaning<br>1 relay output for circulating pump<br>3 mA output (Conductivity and temperature, PID)<br>Alarm output (relay)                                                                                       |
| ENVIRONMENT TEMPERATURE  | -10°C ... 50°C (14°F ... 122°F)                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                    |
| PROTECTION               | IP65 - % working RH: 85% with ≤40 °C; 70% at 50 °C (non condensing)                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| POLLUTION LEVEL          | 2                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                    |
| ENCLOSURE                | ABS                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| TEST/CERTIFICATION       | CE                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                    |
| DIMENSIONS               | refer to the drawing                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                    |
| WEIGHT                   | 1,45 kg (3.1967 lb)                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| INSTALLATION             | vertical wall (4 fixing holes)                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                    |
| OPTIONS <sup>1</sup>     | <ul style="list-style-type: none"> <li>• mA output</li> <li>• 12 or 24VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET or WiFi configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> </ul> | <ul style="list-style-type: none"> <li>• mA water meter input</li> <li>• 12 or 24VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET or WIFI configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> <li>• Modbus configuration <sup>2</sup></li> </ul> |

<sup>1</sup> On request<sup>2</sup> For configuration features refer to the table at the end of the document.

## SINGLE READING DIGITAL SYSTEM

## LDSETORB 2 - LDESTORB 2 PLUS

|                          | LDSETORB 2                                                                                                                                                                                                                                                 | LDSETORB 2 PLUS                                                                                                                                                                                                                                                                                                    |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEASURING PARAMETER      | Turbidity with temperature reading (°C or °F)                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                    |
| RANGE                    | 0 / 40,00 NTU<br>0 / 400,0 NTU<br>0 / 4000 NTU                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                    |
| TEMPERATURE COMPENSATION | PT100                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                    |
| CONTROL                  | /                                                                                                                                                                                                                                                          | PID                                                                                                                                                                                                                                                                                                                |
| INPUT SIGNAL             | PCB                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| POWER SUPPLY             | 240VAC 50/60Hz ; 12 or 24VDC (specify on order)                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                    |
| AVERAGE CONSUMPTION      | 25 W                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                    |
| ON/OFF OUTPUT            | 2 relays; 5A @ 230 VAC (fuse protected)                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                    |
| ALARM OUTPUT             | (same as power supply) alarm output                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| INPUT                    | Stand-by<br>Flow<br>Turbidity probe<br>Temperature probe                                                                                                                                                                                                   | Stand-by<br>Flow<br>Turbidity probe<br>Temperature probe<br>Water meter<br>mA water meter <sup>1</sup>                                                                                                                                                                                                             |
| OUTPUT                   | 2 relay output (NTU and probe cleaning)<br>2 mA output (NTU and temperature) <sup>1</sup><br>Alarm output (relay)                                                                                                                                          | 2 relay output (NTU)<br>2 opto coupled output (NTU)<br>1 relay output for probe cleaning<br>1 relay output for circulating pump<br>3 mA output (NTU and temperature, PID)<br>Alarm output (relay)                                                                                                                  |
| ENVIRONMENT TEMPERATURE  | -10°C ... 50°C (14°F ... 122°F)                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                    |
| PROTECTION               | IP65 - % working RH: 85% with ≤40 °C; 70% at 50 °C (non condensing)                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| POLLUTION LEVEL          | 2                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                    |
| ENCLOSURE                | ABS                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| TEST/CERTIFICATION       | CE                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                    |
| DIMENSIONS               | refer to the drawing                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                    |
| WEIGHT                   | 1,45 kg (3.1967 lb)                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| INSTALLATION             | vertical wall (4 fixing holes)                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                    |
| OPTIONS <sup>1</sup>     | <ul style="list-style-type: none"> <li>• mA output</li> <li>• 12 or 24VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET or WiFi configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> </ul> | <ul style="list-style-type: none"> <li>• mA water meter input</li> <li>• 12 or 24VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET or WIFI configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> <li>• Modbus configuration <sup>2</sup></li> </ul> |

<sup>1</sup> On request<sup>2</sup> For configuration features refer to the table at the end of the document.

## SINGLE READING DIGITAL SYSTEM

## LDSTORB - LDSTORB PLUS

|                          | LDSTORB                                                                                                                                                                                                                                                    | LDSTORB PLUS                                                                                                                                                                                                                                                                                                       |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEASURING PARAMETER      | Turbidity with temperature reading (°C or °F)                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                    |
| RANGE                    | 0 - 40,00 NTU                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                    |
| TEMPERATURE COMPENSATION | PT100                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                    |
| CONTROL                  | /                                                                                                                                                                                                                                                          | PID                                                                                                                                                                                                                                                                                                                |
| INPUT SIGNAL             | PCB                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| POWER SUPPLY             | 240VAC 50/60Hz ; 12 or 24VDC (specify on order)                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                    |
| AVERAGE CONSUMPTION      | 25 W                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                    |
| ON/OFF OUTPUT            | 2 relays; 5A @ 230 VAC (fuse protected)                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                    |
| ALARM OUTPUT             | (same as power supply) alarm output                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| INPUT                    | Stand-by<br>Flow<br>Turbidity probe<br>Temperature probe                                                                                                                                                                                                   | Stand-by<br>Flow<br>Turbidity probe<br>Temperature probe<br>Water meter<br>mA water meter <sup>1</sup>                                                                                                                                                                                                             |
| OUTPUT                   | 2 relay output (NTU and probe cleaning)<br>2 mA output (NTU and temperature) <sup>1</sup><br>Alarm output (relay)                                                                                                                                          | 2 relay output (NTU)<br>2 opto coupled output (NTU)<br>1 relay output for probe cleaning<br>1 relay output for circulating pump<br>3 mA output (NTU and temperature, PID)<br>Alarm output (relay)                                                                                                                  |
| ENVIRONMENT TEMPERATURE  | -10°C ... 50°C (14°F ... 122°F)                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                    |
| PROTECTION               | IP65 - % working RH: 85% with ≤40 °C; 70% at 50 °C (non condensing)                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| POLLUTION LEVEL          | 2                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                    |
| ENCLOSURE                | ABS                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| TEST/CERTIFICATION       | CE                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                    |
| DIMENSIONS               | refer to the drawing                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                    |
| WEIGHT                   | 1,45 kg (3.1967 lb)                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| INSTALLATION             | vertical wall (4 fixing holes)                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                    |
| OPTIONS <sup>1</sup>     | <ul style="list-style-type: none"> <li>• mA output</li> <li>• 12 or 24VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET or WIFI configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> </ul> | <ul style="list-style-type: none"> <li>• mA water meter input</li> <li>• 12 or 24VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET or WIFI configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> <li>• Modbus configuration <sup>2</sup></li> </ul> |

## SINGLE READING DIGITAL SYSTEM

## LDSDO - LDSDO PLUS

|                          | LDSDO                                                                                                                                                                                                                                                      | LDSDO PLUS                                                                                                                                                                                                                                                                                                         |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEASURING PARAMETER      | Dissolved oxygen with temperature reading (°C or °F)                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                    |
| RANGE                    | 0 - 9,999 mg/l O <sub>2</sub><br>0 - 99,99 mg/l O <sub>2</sub><br>0 - 999,9 mg/l O <sub>2</sub><br>0 - 9999 mg/l O <sub>2</sub>                                                                                                                            |                                                                                                                                                                                                                                                                                                                    |
| TEMPERATURE COMPENSATION | PT100                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                    |
| CONTROL                  | /                                                                                                                                                                                                                                                          | PID                                                                                                                                                                                                                                                                                                                |
| INPUT SIGNAL             | PCB                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| POWER SUPPLY             | 240VAC 50/60Hz ; 12 or 24VDC (specify on order)                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                    |
| AVERAGE CONSUMPTION      | 25 W                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                    |
| ON/OFF OUTPUT            | 2 relays; 5A @ 230 VAC (fuse protected)                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                    |
| ALARM OUTPUT             | (same as power supply) alarm output                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| INPUT                    | Stand-by<br>Flow<br>Dissolved oxygen probe<br>Temperature probe                                                                                                                                                                                            | Stand-by<br>Flow<br>Dissolved oxygen probe<br>Temperature probe<br>Water meter<br>mA water meter <sup>1</sup>                                                                                                                                                                                                      |
| OUTPUT                   | 1 relay output (Dissolved oxygen)<br>2 mA output (Dissolved oxygen & Temperature) <sup>1</sup><br>Alarm output (relay)                                                                                                                                     | 2 relay output (Dissolved oxygen)<br>2 opto coupled output (Dissolved oxygen)<br>1 relay output for probe cleaning<br>1 relay output for circulating pump<br>3 mA output (Dissolved oxygen & Temperature, PID)<br>Alarm output (relay)                                                                             |
| ENVIRONMENT TEMPERATURE  | -10°C ... 50°C (14°F ... 122°F)                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                    |
| PROTECTION               | IP65 - % working RH: 85% with ≤40 °C; 70% at 50 °C (non condensing)                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| POLLUTION LEVEL          | 2                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                    |
| ENCLOSURE                | ABS                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| TEST/CERTIFICATION       | CE                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                    |
| DIMENSIONS               | refer to the drawing                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                    |
| WEIGHT                   | 1,45 kg (3.1967 lb)                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| INSTALLATION             | vertical wall (4 fixing holes)                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                    |
| OPTIONS <sup>1</sup>     | <ul style="list-style-type: none"> <li>• mA output</li> <li>• 12 or 24VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET or WiFi configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> </ul> | <ul style="list-style-type: none"> <li>• mA water meter input</li> <li>• 12 or 24VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET or WIFI configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> <li>• Modbus configuration <sup>2</sup></li> </ul> |

<sup>1</sup> On request<sup>2</sup> For configuration features refer to the table at the end of the document.

## SINGLE READING DIGITAL SYSTEM

## LDSTRC - LDSTRC PLUS

|                          | LDSTRC                                                                                                                                                                                                                                                     | LDSTRC PLUS                                                                                                                                                                                                                                                                                                        |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEASURING PARAMETER      | Tracers                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                    |
| RANGE                    | 0-999.9 ppm; resolution: 0,1 ppm                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                    |
| TEMPERATURE COMPENSATION | /                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                    |
| CONTROL                  | /                                                                                                                                                                                                                                                          | PID                                                                                                                                                                                                                                                                                                                |
| INPUT SIGNAL             | PCB                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| POWER SUPPLY             | 240VAC 50/60Hz ; 12 or 24VDC (specify on order)                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                    |
| AVERAGE CONSUMPTION      | 25 W                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                    |
| ON/OFF OUTPUT            | 2 relays; 5A @ 230 VAC (fuse protected)                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                    |
| ALARM OUTPUT             | (same as power supply) alarm output                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| INPUT                    | Stand-by<br>Flow<br>Trc level<br>Trc probe<br>Temperature probe                                                                                                                                                                                            | Stand-by<br>Flow<br>Trc level<br>Trc probe<br>Temperature probe<br>Water meter<br>mA water meter <sup>1</sup>                                                                                                                                                                                                      |
| OUTPUT                   | 1 relay output (Trc)<br>1 Opto coupled output (Trc)<br>2 mA output (Trc & Temperature) <sup>1</sup><br>Alarm output (relay)                                                                                                                                | 2 relay output (Trc)<br>2 opto coupled output (Trc)<br>1 relay output for probe cleaning<br>1 relay output for circulating pump<br>2 mA output (Trc & Temperature, PID)<br>Alarm output (relay)                                                                                                                    |
| ENVIRONMENT TEMPERATURE  | -10°C ... 50°C (14°F ... 122°F)                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                    |
| PROTECTION               | IP65 - % working RH: 85% with ≤40 °C; 70% at 50 °C (non condensing)                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| POLLUTION LEVEL          | 2                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                    |
| ENCLOSURE                | ABS                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| TEST/CERTIFICATION       | CE                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                    |
| DIMENSIONS               | refer to the drawing                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                    |
| WEIGHT                   | 1,45 kg (3.1967 lb)                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| INSTALLATION             | vertical wall (4 fixing holes)                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                    |
| OPTIONS <sup>1</sup>     | <ul style="list-style-type: none"> <li>• mA output</li> <li>• 12 or 24VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET or WiFi configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> </ul> | <ul style="list-style-type: none"> <li>• mA water meter input</li> <li>• 12 or 24VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET or WIFI configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> <li>• Modbus configuration <sup>2</sup></li> </ul> |

## SINGLE READING DIGITAL SYSTEM

## CONFIGURATIONS

|                     | PLUS                                        | WHEN                                                                          | REQUIREMENTS       | FUNCTIONS                                                                                                                                                        |
|---------------------|---------------------------------------------|-------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BASIC</b>        | /                                           | For local control only                                                        | /                  | RS485 output to link other EMEC instruments or a PC                                                                                                              |
| <b>ADVANCED USB</b> | USB output                                  | You do not need a PC on your plant: you can download data log on a USB device | /                  | RS485 output to link other EMEC instruments or a PC<br>Data Log on USB device                                                                                    |
| <b>ETHERNET</b>     | LAN network between instrument and web      | Remote control via WEB ERMES                                                  | LAN wiring (RJ-45) | RS485 output to link other EMEC instruments or a PC<br>Web ERMES remote control (PC, smartphone or tablet)<br>Alarm messages via email                           |
| <b>GSM</b>          | GSM modem between instrument and web        | Remote control via WEB ERMES                                                  | Network coverage   | RS485 output to link other EMEC instruments or a PC<br>Web ERMES remote control (PC, smartphone or tablet)<br>Alarm messages via email<br>Alarm messages via SMS |
| <b>WIFI</b>         | WIFI network between instrument and web     | Remote control via WEB ERMES                                                  | Network coverage   | RS485 output to link other EMEC instruments or a PC<br>Web ERMES remote control (PC, smartphone or tablet)<br>Alarm messages via email                           |
| <b>MODBUS</b>       | Connection to other devices (PLC) via RS485 | PLC plant management                                                          | /                  | PLC connection output for reading and modifying parameters                                                                                                       |

You can **CUSTOMIZE** configurations adding external modules.

**MIXED CONFIGURATIONS** allows to connect instruments to ERMES software in multiple ways: directly, locally and remotely. Those configurations extend connection capacity.

If you already use EMEC instruments and you want use ERMES web application, contact our **customers service**.