

## MULTIPLE READING DIGITAL SYSTEMS

Digital controllers for measurement and control of two parameters, with temperature reading (° C or ° F).

LD MULTICHANNEL series is controlled by an "ENCODER".

Working mode can be set:

- on / off
- pulse proportional
- proportional PWM
- fixed PWM

LD MULTICHANNEL PLUS has got, further more, working modes:

- PID
- proportional with water meter
- IN-LINE

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.

R3-05-25



#### 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 software available. Ask for French or Deutsch.

#### CUSTOMIZATION

Instruments can be customized with client logo on frontal panel.

#### STAND-BY INPUT

#### FLOW CONTROL INPUT

#### PERMANENT DATA STORAGE (WITHOUT BATTERY)

System log on display.

#### DELAY

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

#### ALARMS

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

#### DISPLAY

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

#### PROBE READOUT MENU

#### PH PRIORITY DOSAGE

pH priority dosage on second parameter.

#### mA OUTPUT

As option.

#### 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.

#### ALARM RELAIS

230 VAC output alarm.

#### DOUBLE SETPOINT

Relais set for 2 setpoint.

#### FLOCCULANT OUTPUT (230 VAC)

LDPHCL and LDPHRH only.

#### INTERNAL CLOCK

#### AUTOMATIC OR MANUAL DOSING ACTIVITY

#### LD MULTICHANNEL PLUS ONLY

#### WATER METER INPUT

#### mA WATER METER INPUT (ON REQUEST)

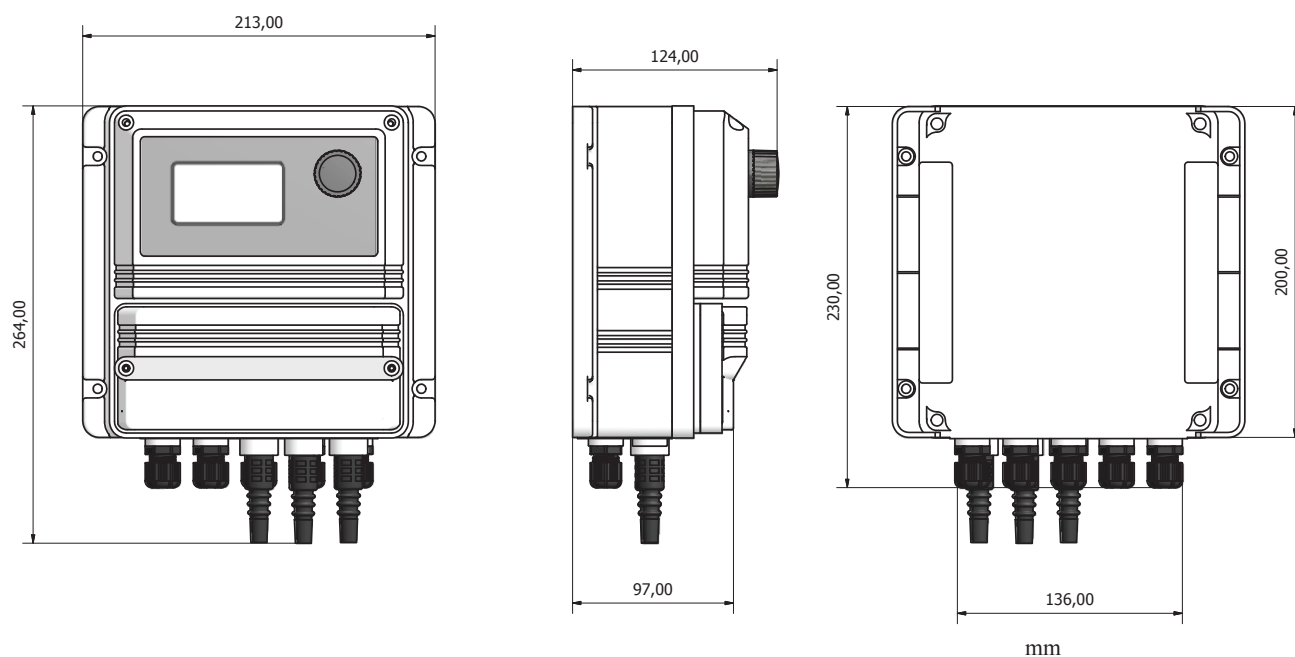
#### mA OUTPUT

#### PID

## MODELS

| STANDARD         | PLUS                  | MEASURING PARAMETER                                                                              |
|------------------|-----------------------|--------------------------------------------------------------------------------------------------|
| <b>LDPHCL</b>    | <b>LDPHCL PLUS</b>    | pH and Chlorine (or hydrogen peroxyde, ozone, peracetic acid, chlorine dioxide, bromine)         |
| <b>LDPHRH</b>    | <b>LDPHRH PLUS</b>    | pH and ORP                                                                                       |
| <b>LDPHCD</b>    | <b>LDPHCD PLUS</b>    | pH and Conductivity                                                                              |
| <b>LDPHCDIND</b> | <b>LDPHCDIND PLUS</b> | pH and Inductive Conductivity (probe mod. ECDINDPT)                                              |
| <b>LDPHTORBH</b> | <b>LDPHTORBH PLUS</b> | pH and Turbidity (probe mod. ETORBH)                                                             |
| <b>LDPHTRC</b>   | <b>LDPHTRC PLUS</b>   | pH and tracers (probe mod. ETRC)                                                                 |
| <b>LDCDCD</b>    | <b>LDCDCD PLUS</b>    | 2 Channels for Conductivity                                                                      |
| <b>LDCLCL</b>    | <b>LDCLCL PLUS</b>    | 2 Channels for Chlorine (or hydrogen peroxyde, ozone, peracetic acid, chlorine dioxide, bromine) |

## DIMENSIONS



## MULTIPLE READING DIGITAL SYSTEMS

## LDPHCL - LDPHCL PLUS

|                          | LDPHCL                                                                                                                                                                                                                                                                                              | LDPHCL PLUS                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEASURING PARAMETER      | pH / chlorine                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                    |
| RANGE                    | 0-14 pH / chlorine based on probe model <sup>1</sup>                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                    |
| TEMPERATURE COMPENSATION | Chlorine and PH (with ECL6 only)                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                    |
| CONTROL                  | Prop. - On/Off                                                                                                                                                                                                                                                                                      | Prop. - On/Off - PID - Prop.+WM - IN-LINE                                                                                                                                                                                                                                                                                                          |
| INPUT SIGNAL             | BNC connector for pH - PCB for Chlorine                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                    |
| POWER SUPPLY             | 85-264 VAC; 50/60 Hz                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                    |
| AVERAGE CONSUMPTION      | 25 W                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                    |
| ON/OFF OUTPUT            | 2 relays; 5A @ 230 VAC (fuse protected)                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                    |
| ALARM OUTPUT             | 85-264VAC alarm output                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                    |
| INPUT                    | Stand-by<br>Flow<br>PH+ level<br>PH- level<br>Chlorine level<br>PH probe<br>Chlorine probe<br>Temperature probe                                                                                                                                                                                     | Stand-by<br>Flow<br>PH+ level<br>PH- level<br>Chlorine level<br>PH probe<br>Chlorine probe<br>Temperature probe<br>Water meter<br>mA water meter <sup>2</sup>                                                                                                                                                                                      |
| OUTPUT                   | 2 proportional impulsive (pH)<br>Proportional impulsive (Cl)<br>Proportional on/off (pH)<br>Proportional on/off (Cl)<br>3 mA output (pH, Cl, temperature) as option <sup>2</sup><br>Flocculant output (230 VAC)<br>General alarm                                                                    | 2 proportional impulsive (pH)<br>Proportional impulsive (Cl)<br>Proportional on/off (pH)<br>Proportional on/off (Cl)<br>3 mA output (pH, Cl, temperature)<br>Flocculant output (230 VAC)<br>General alarm                                                                                                                                          |
| ENVIRONMENT TEMPERATURE  | -10°C ... 50°C (14°F ... 122°F)                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                    |
| PROTECTION               | IP65 - % working UR: 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>2</sup>     | <ul style="list-style-type: none"> <li>• mA output</li> <li>• 9-18 or 18-36 VDC power supply</li> <li>• ADVANCED USB configuration <sup>3</sup></li> <li>• ETHERNET configuration <sup>3</sup></li> <li>• GSM/GPRS configuration <sup>3</sup></li> <li>• WIFI configuration <sup>3</sup></li> </ul> | <ul style="list-style-type: none"> <li>• mA Water Meter input</li> <li>• POWER SUPPLY 9-30 VDC</li> <li>• ADVANCED USB configuration <sup>3</sup></li> <li>• ETHERNET configuration <sup>3</sup></li> <li>• GSM/GPRS configuration <sup>3</sup></li> <li>• MODBUS configuration <sup>3</sup></li> <li>• WIFI configuration <sup>3</sup></li> </ul> |

<sup>1</sup> Chlorine probe:

|             |              |
|-------------|--------------|
| SCL 3S/20   | 0-20.00 mg/l |
| SCL 3N/2    | 0-2.000 mg/l |
| SCL 3N/20   | 0-20.00 mg/l |
| SCL 3N/200  | 0-200.0 mg/l |
| SCL 8/2     | 0-2.000 mg/l |
| SCL 8/20    | 0-20.00 mg/l |
| SCL 9/200   | 0-200.0 mg/l |
| SCL 10/2    | 0-2.000 mg/l |
| SCL 10/20   | 0-20.00 mg/l |
| SCL 11/200  | 0-200.0 mg/l |
| SCL 11/2000 | 0-2000 mg/l  |

|                             |                    |
|-----------------------------|--------------------|
| SCL 2/2                     | 0-2.000 mg/l       |
| SCL 2/20                    | 0-20.00 mg/l       |
| SCL 17/2                    | 0-2.000 mg/l       |
| SCL 17/20                   | 0-20.00 mg/l       |
| SCL 18/2                    | 0-2.000 mg/l       |
| SCL 18/20                   | 0-20.00 mg/l       |
| SBR 20                      | 0-20.00 mg/l       |
| OPEN AMPEROMETRIC CELL      |                    |
| ECL 4, 5, 6, 6E, 7, 12, 12E | 0-10.00 mg/l or Br |

<sup>2</sup> On request.<sup>3</sup> For configuration features refer to the table at the end of the document.

## MULTIPLE READING DIGITAL SYSTEMS

## LDPHRH - LDPHRH PLUS

|                          | LDPHRH                                                                                                                                                                                                                                                                                              | LDPHRH PLUS                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEASURING PARAMETER      | pH / ORP                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                    |
| RANGE                    | 0-14 pH / 0-1000 mV; resolution: 0,1                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                    |
| TEMPERATURE COMPENSATION | pH                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                    |
| CONTROL                  | Prop. - On/Off                                                                                                                                                                                                                                                                                      | Prop. - On/Off - PID - Prop.+WM - IN-LINE                                                                                                                                                                                                                                                                                                          |
| INPUT SIGNAL             | BNC connector for pH - BNC connector for ORP                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                    |
| POWER SUPPLY             | 85-264 VAC; 50/60 Hz                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                    |
| AVERAGE CONSUMPTION      | 25 W                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                    |
| ON/OFF OUTPUT            | 2 relays; 5A @ 230 VAC (fuse protected)                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                    |
| ALARM OUTPUT             | 85-264VAC alarm output                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                    |
| INPUT                    | Stand-by<br>Flow<br>PH+ level<br>PH- level<br>ORP level<br>PH probe<br>ORP probe<br>Temperature probe                                                                                                                                                                                               | Stand-by<br>Flow<br>PH+ level<br>PH- level<br>ORP level<br>PH probe<br>ORP probe<br>Temperature probe<br>Water meter<br>mA water meter <sup>1</sup>                                                                                                                                                                                                |
| OUTPUT                   | 2 proportional impulsive(pH)<br>Proportional impulsive (ORP)<br>Proportional on/off (pH)<br>Proportional on/off (ORP)<br>3 mA output (pH, ORP, temperature) as option <sup>1</sup><br>Flocculant output (230 VAC)<br>General alarm                                                                  | 2 proportional impulsive(pH)<br>Proportional impulsive (ORP)<br>Proportional on/off (pH)<br>Proportional on/off (ORP)<br>3 mA output (pH, ORP, temperature)<br>Flocculant output (230 VAC)<br>General alarm                                                                                                                                        |
| ENVIRONMENT TEMPERATURE  | -10°C ... 50°C (14°F ... 122°F)                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                    |
| PROTECTION               | IP65 - % working UR: 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>• 9-18 or 18-36 VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> <li>• WIFI configuration <sup>2</sup></li> </ul> | <ul style="list-style-type: none"> <li>• mA Water Meter input</li> <li>• POWER SUPPLY 9-30 VDC</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> <li>• MODBUS configuration <sup>2</sup></li> <li>• WIFI 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.

## LDCDCD - LDCDCD PLUS

|                          | LDCDCD                                                                                                                                                                                                                                                                                              | LDCDCD PLUS                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEASURING PARAMETER      | Double Channel for 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 | Conductivity                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                    |
| CONTROL                  | Prop. - On/Off                                                                                                                                                                                                                                                                                      | Prop. - On/Off - PID - Prop.+WM - IN-LINE                                                                                                                                                                                                                                                                                                          |
| INPUT SIGNAL             | 2 PCB for conductivity                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                    |
| POWER SUPPLY             | 85-264 VAC; 50/60 Hz                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                    |
| AVERAGE CONSUMPTION      | 25 W                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                    |
| ON/OFF OUTPUT            | 2 relays; 5A @ 230 VAC (fuse protected)                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                    |
| ALARM OUTPUT             | 85-264VAC alarm output                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                    |
| INPUT                    | Stand-by<br>Flow<br>CD+ level<br>CD- level<br>Conductivity level<br>2 Conductivity probes<br>Temperature probe                                                                                                                                                                                      | Stand-by<br>Flow<br>CD+ level<br>CD- level<br>Conductivity level<br>2 Conductivity probes<br>Temperature probe<br>Water meter<br>mA water meter <sup>1</sup>                                                                                                                                                                                       |
| OUTPUT                   | 3 Proportional impulsive (Conductivity)<br>2 Proportional on/off (Conductivity)<br>3 mA output (Conductivity, temperature) as option <sup>1</sup><br>General alarm                                                                                                                                  | 3 Proportional impulsive (Conductivity)<br>2 Proportional on/off (Conductivity)<br>3 mA output (Conductivity, temperature)<br>General alarm                                                                                                                                                                                                        |
| ENVIRONMENT TEMPERATURE  | -10°C ... 50°C (14°F ... 122°F)                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                    |
| PROTECTION               | IP65 - % working UR: 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>• 9-18 or 18-36 VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> <li>• WIFI configuration <sup>2</sup></li> </ul> | <ul style="list-style-type: none"> <li>• mA Water Meter input</li> <li>• POWER SUPPLY 9-30 VDC</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> <li>• MODBUS configuration <sup>2</sup></li> <li>• WIFI 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.

## LDPHCD - LDPHCD PLUS

|                          | LDPHCD                                                                                                                                                                                                                                                                                              | LDPHCD PLUS                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEASURING PARAMETER      | pH / Conductivity with temperature reading (°C or °F)                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                    |
| RANGE                    | 0-14 pH / 0-300,0 µS<br>0-14 pH / 0-3000 µS<br>0-14 pH / 0-30,00 mS<br>0-14 pH / 0-300,0 mS                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                    |
| TEMPERATURE COMPENSATION | ph and conductivity                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                    |
| CONTROL                  | Prop. - On/Off                                                                                                                                                                                                                                                                                      | Prop. - On/Off - PID - Prop.+WM - IN-LINE                                                                                                                                                                                                                                                                                                          |
| INPUT SIGNAL             | BNC connector for pH - PCB for conductivity                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                    |
| POWER SUPPLY             | 85-264 VAC; 50/60 Hz                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                    |
| AVERAGE CONSUMPTION      | 25 W                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                    |
| ON/OFF OUTPUT            | 2 relays; 5A @ 230 VAC (fuse protected)                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                    |
| ALARM OUTPUT             | 85-264VAC alarm output                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                    |
| INPUT                    | Stand-by<br>Flow<br>PH+ level<br>PH- level<br>Conductivity level<br>PH probe<br>Conductivity probe<br>Temperature probe                                                                                                                                                                             | Stand-by<br>Flow<br>PH+ level<br>PH- level<br>Conductivity level<br>PH probe<br>Conductivity probe<br>Temperature probe<br>Water meter<br>mA water meter <sup>1</sup>                                                                                                                                                                              |
| OUTPUT                   | 2 proportional impulsive (pH)<br>Proportional impulsive (Conductivity)<br>Proportional on/off (pH)<br>Proportional on/off (Conductivity)<br>3 mA output (pH, Conductivity, temperature) as option <sup>1</sup><br>General alarm                                                                     | 2 proportional impulsive (pH)<br>Proportional impulsive (Conductivity)<br>Proportional on/off (pH)<br>Proportional on/off (Conductivity)<br>3 mA output (pH, Conductivity, temperature)<br>General alarm                                                                                                                                           |
| ENVIRONMENT TEMPERATURE  | -10°C ... 50°C (14°F ... 122°F)                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                    |
| PROTECTION               | IP65 - % working UR: 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>• 9-18 or 18-36 VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> <li>• WIFI configuration <sup>2</sup></li> </ul> | <ul style="list-style-type: none"> <li>• mA Water Meter input</li> <li>• POWER SUPPLY 9-30 VDC</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> <li>• MODBUS configuration <sup>2</sup></li> <li>• WIFI 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.

## LDPHCD IND - LDPHCD IND PLUS

|                          | LDPHCD IND                                                                                                                                                                                                                                                                                          | LDPHCD IND PLUS                                                                                                                                                                                                                                                                                                                                    |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEASURING PARAMETER      | pH / Inductive conductivity with temperature reading (°C or °F)                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                    |
| RANGE                    | 0-14 pH / 0-3,000 mS<br>0-14 pH / 0-30,00 mS<br>0-14 pH / 0-300,0 mS                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                    |
| TEMPERATURE COMPENSATION | ph and conductivity                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                    |
| CONTROL                  | Prop. - On/Off                                                                                                                                                                                                                                                                                      | Prop. - On/Off - PID - Prop.+WM - IN-LINE                                                                                                                                                                                                                                                                                                          |
| INPUT SIGNAL             | BNC connector for pH - PCB for conductivity                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                    |
| POWER SUPPLY             | 85-264 VAC; 50/60 Hz                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                    |
| AVERAGE CONSUMPTION      | 25 W                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                    |
| ON/OFF OUTPUT            | 2 relays; 5A @ 230 VAC (fuse protected)                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                    |
| ALARM OUTPUT             | 85-264VAC alarm output                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                    |
| INPUT                    | Stand-by<br>Flow<br>PH+ level<br>PH- level<br>Inductive conductivity level<br>PH probe<br>Inductive conductivity probe<br>Temperature probe                                                                                                                                                         | Stand-by<br>Flow<br>PH+ level<br>PH- level<br>Inductive conductivity level<br>PH probe<br>Inductive conductivity probe<br>Temperature probe<br>Water meter<br>mA water meter <sup>1</sup>                                                                                                                                                          |
| OUTPUT                   | 2 proportional impulsive (pH)<br>Proportional impulsive (Inductive conductivity)<br>Proportional on/off (pH)<br>Proportional on/off (Inductive conductivity)<br>3 mA output (pH, Inductive conductivity, temperature) as option <sup>1</sup><br>General alarm                                       | 2 proportional impulsive (pH)<br>Proportional impulsive (Inductive conductivity)<br>Proportional on/off (pH)<br>Proportional on/off (Inductive conductivity)<br>3 mA output (pH, Inductive conductivity, temperature)<br>General alarm                                                                                                             |
| ENVIRONMENT TEMPERATURE  | -10°C ... 50°C (14°F ... 122°F)                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                    |
| PROTECTION               | IP65 - % working UR: 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>• 9-18 or 18-36 VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> <li>• WIFI configuration <sup>2</sup></li> </ul> | <ul style="list-style-type: none"> <li>• mA Water Meter input</li> <li>• POWER SUPPLY 9-30 VDC</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> <li>• MODBUS configuration <sup>2</sup></li> <li>• WIFI 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.

## LDPHTORBH - LDPHTORBH PLUS

|                          | LDPHTORBH                                                                                                                                                                                                                                                                                           | LDPHTORBH PLUS                                                                                                                                                                                                                                                                                                                                     |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEASURING PARAMETER      | pH / Turbidity with temperature reading (°C or °F)                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                    |
| RANGE                    | 0-14 pH / 0-9999 NTU                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                    |
| TEMPERATURE COMPENSATION | pH                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                    |
| CONTROL                  | Prop. - On/Off                                                                                                                                                                                                                                                                                      | Prop. - On/Off - PID - Prop.+WM - IN-LINE                                                                                                                                                                                                                                                                                                          |
| INPUT SIGNAL             | BNC connector for pH - PCB for Turbidity                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                    |
| POWER SUPPLY             | 85-264 VAC; 50/60 Hz                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                    |
| AVERAGE CONSUMPTION      | 25 W                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                    |
| ON/OFF OUTPUT            | 2 relays; 5A @ 230 VAC (fuse protected)                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                    |
| USCITA ALLARME           | 85-264VAC alarm output                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                    |
| INPUT                    | Stand-by<br>Flow<br>PH+ level<br>PH- level<br>Turbidity level<br>PH probe<br>Turbidity probe<br>Temperature probe                                                                                                                                                                                   | Stand-by<br>Flow<br>PH+ level<br>PH- level<br>Turbidity level<br>PH probe<br>Turbidity probe<br>Temperature probe<br>Water meter<br>mA water meter <sup>1</sup>                                                                                                                                                                                    |
| OUTPUT                   | 2 proportional impulsive (pH)<br>Proportional impulsive (Turbidity)<br>Proportional on/off (pH)<br>Proportional on/off (Turbidity)<br>3 mA output (pH, Turbidity, temperature) as option <sup>1</sup><br>General alarm                                                                              | 2 proportional impulsive (pH)<br>Proportional impulsive (Turbidity)<br>Proportional on/off (pH)<br>Proportional on/off (Turbidity)<br>3 mA output (pH, Turbidity, temperature)<br>General alarm                                                                                                                                                    |
| ENVIRONMENT TEMPERATURE  | -10°C ... 50°C (14°F ... 122°F)                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                    |
| PROTECTION               | IP65 - % working UR: 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>• 9-18 or 18-36 VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> <li>• WIFI configuration <sup>2</sup></li> </ul> | <ul style="list-style-type: none"> <li>• mA Water Meter input</li> <li>• POWER SUPPLY 9-30 VDC</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> <li>• MODBUS configuration <sup>2</sup></li> <li>• WIFI 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.

## LDPHTRC - LDPHTRC PLUS

|                          | LDPHTRC                                                                                                                                                                                                                                                                                             | LDPHTRC PLUS                                                                                                                                                                                                                                                                                                                                       |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEASURING PARAMETER      | pH / Tracers                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                    |
| RANGE                    | 0-14 pH / 0-999.9 ppm                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                    |
| TEMPERATURE COMPENSATION | /                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                    |
| CONTROL                  | Prop. - On/Off                                                                                                                                                                                                                                                                                      | Prop. - On/Off - PID - Prop.+WM - IN-LINE                                                                                                                                                                                                                                                                                                          |
| INPUT SIGNAL             | BNC connector for pH - PCB for TRC                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                    |
| POWER SUPPLY             | 85-264 VAC; 50/60 Hz                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                    |
| AVERAGE CONSUMPTION      | 25 W                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                    |
| ON/OFF OUTPUT            | 2 relays; 5A @ 230 VAC (fuse protected)                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                    |
| USCITA ALLARME           | 85-264VAC alarm output                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                    |
| INPUT                    | Stand-by<br>Flow<br>PH+ level<br>PH- level<br>TRC level<br>PH probe<br>TRC probe<br>Temperature probe                                                                                                                                                                                               | Stand-by<br>Flow<br>PH+ level<br>PH- level<br>TRC level<br>PH probe<br>TRC probe<br>Temperature probe<br>Water meter<br>mA water meter <sup>1</sup>                                                                                                                                                                                                |
| OUTPUT                   | 2 proportional impulsive (pH)<br>Proportional impulsive (TRC)<br>Proportional on/off (pH)<br>Proportional on/off (TRC)<br>3 mA output (pH, TRC, temperature) as option <sup>1</sup><br>General alarm                                                                                                | 2 proportional impulsive (pH)<br>Proportional impulsive (TRC)<br>Proportional on/off (pH)<br>Proportional on/off (TRC)<br>3 mA output (pH, TRC, temperature)<br>General alarm                                                                                                                                                                      |
| ENVIRONMENT TEMPERATURE  | -10°C ... 50°C (14°F ... 122°F)                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                    |
| PROTECTION               | IP65 - % working UR: 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>• 9-18 or 18-36 VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> <li>• WIFI configuration <sup>2</sup></li> </ul> | <ul style="list-style-type: none"> <li>• mA Water Meter input</li> <li>• POWER SUPPLY 9-30 VDC</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> <li>• MODBUS configuration <sup>2</sup></li> <li>• WIFI configuration <sup>2</sup></li> </ul> |

## LDPHDO - LDPHDO PLUS

|                          | LDPHDO                                                                                                                                                                                                                                                                                              | LDPHDO PLUS                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEASURING PARAMETER      | pH / Dissolved oxygen with temperature reading (°C or °F)                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                    |
| RANGE                    | 0-14 pH / 0-9,999 mg/l<br>0-14 pH / 0-999,9 mg/l<br>0-14 pH / 0-9999 mg/l                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                    |
| TEMPERATURE COMPENSATION | ph and dissolved oxygen                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                    |
| CONTROL                  | Prop. - On/Off                                                                                                                                                                                                                                                                                      | Prop. - On/Off - PID - Prop.+WM - IN-LINE                                                                                                                                                                                                                                                                                                          |
| INPUT SIGNAL             | BNC connector for pH - PCB for for Dissolved Oxygen                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                    |
| POWER SUPPLY             | 85-264 VAC; 50/60 Hz                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                    |
| AVERAGE CONSUMPTION      | 25 W                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                    |
| ON/OFF OUTPUT            | 2 relays; 5A @ 230 VAC (fuse protected)                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                    |
| ALARM OUTPUT             | 85-264VAC alarm output                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                    |
| INPUT                    | Stand-by<br>Flow<br>PH+ level<br>PH- level<br>Inductive dissolved oxygen level<br>PH probe<br>Inductive dissolved oxygen probe<br>Temperature probe                                                                                                                                                 | Stand-by<br>Flow<br>PH+ level<br>PH- level<br>Inductive dissolved oxygen level<br>PH probe<br>Inductive dissolved oxygen probe<br>Temperature probe<br>Water meter<br>mA water meter <sup>1</sup>                                                                                                                                                  |
| OUTPUT                   | 2 proportional impulsive (pH)<br>Proportional impulsive (Inductive dissolved oxygen)<br>Proportional on/off (pH)<br>Proportional on/off (Inductive dissolved oxygen)<br>3 mA output (pH, Inductive dissolved oxygen, temperature) as option <sup>1</sup><br>General alarm                           | 2 proportional impulsive (pH)<br>Proportional impulsive (Inductive dissolved oxygen)<br>Proportional on/off (pH)<br>Proportional on/off (Inductive dissolved oxygen)<br>3 mA output (pH, Inductive dissolved oxygen, temperature)<br>General alarm                                                                                                 |
| ENVIRONMENT TEMPERATURE  | -10°C ... 50°C (14°F ... 122°F)                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                    |
| PROTECTION               | IP65 - % working UR: 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>• 9-18 or 18-36 VDC power supply</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> <li>• WIFI configuration <sup>2</sup></li> </ul> | <ul style="list-style-type: none"> <li>• mA Water Meter input</li> <li>• POWER SUPPLY 9-30 VDC</li> <li>• ADVANCED USB configuration <sup>2</sup></li> <li>• ETHERNET configuration <sup>2</sup></li> <li>• GSM/GPRS configuration <sup>2</sup></li> <li>• MODBUS configuration <sup>2</sup></li> <li>• WIFI 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.

# LD MULTICHANNEL - LD MULTICHANNEL PLUS

Data Sheet

## MULTIPLE READING DIGITAL SYSTEMS

### LDCLCL - LDCLCL PLUS

|                          | LDCLCL                                                                                                                                                                                                                                                                                  | LDCLCL PLUS                                                                                                                                                                                                                                                                                                                          |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEASURING PARAMETER      | 2 channels chlorine (hydrogen peroxyde, ozone, peracetic acid, chlorine dioxide, bromine)                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                      |
| RANGE                    | Chlorine range is based on probe mode (see below)                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                      |
| TEMPERATURE COMPENSATION | Chlorine (with ECL6 only)                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                      |
| CONTROL                  | Prop. - On/Off                                                                                                                                                                                                                                                                          | Prop. - On/Off - PID - Prop.+WM - IN-LINE                                                                                                                                                                                                                                                                                            |
| INPUT SIGNAL             | 2 PCB modules for Chlorine Ch1 & Ch2                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                      |
| POWER SUPPLY             | 85-264 VAC; 50/60 Hz                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                      |
| AVERAGE CONSUMPTION      | 25 W                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                      |
| ON/OFF OUTPUT            | 2 relays; 5A @ 230 VAC (fuse protected)                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                      |
| ALARM OUTPUT             | 85-264VAC alarm output                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                      |
| INPUT                    | Stand-by<br>Flow<br>2 Chlorine levels (Ch1 & Ch2)<br>2 Chlorine probes (Ch1 & Ch2)<br>Temperature reading                                                                                                                                                                               | Stand-by<br>Flow<br>2 Chlorine levels (Ch1 & Ch2)<br>2 Chlorine probes (Ch1 & Ch2)<br>Temperature reading<br>Water meter Input<br>mA water meter module <sup>2</sup>                                                                                                                                                                 |
| OUTPUT                   | 2 proportional impulsive (Cl Ch1)<br>Proportional impulsive (Cl Ch2)<br>Proportional on/off (Cl Ch1)<br>Proportional on/off (Cl Ch2)<br>3 mA output (Cl Ch1, Cl Ch2, temperature) as option <sup>2</sup><br>Flocculant output (230 VAC)<br>General alarm                                | 2 proportional impulsive (Cl Ch1)<br>Proportional impulsive (Cl Ch2)<br>Proportional on/off (Cl Ch1)<br>Proportional on/off (Cl Ch2)<br>3 mA output (Cl Ch1, Cl Ch2, temperature)<br>Flocculant output (230 VAC)<br>General alarm                                                                                                    |
| ENVIRONMENT TEMPERATURE  | -10°C ... 50°C (14°F ... 122°F)                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                      |
| PROTECTION               | IP65 - % working UR: 85% with ≤40 °C; 70% at 50 °C (non condensing)                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                      |
| POLLUTION LEVEL          | 2                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                      |
| ENCLOSURE                | ABS                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                      |
| TEST/CERTIFICATION       | CE                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                      |
| DIMENSIONS               | refer to drawing                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                      |
| WEIGHT                   | 1,45 kg (3.1967 lb)                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                      |
| INSTALLATION             | vertical wall (4 fixing holes)                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                      |
| OPTIONS <sup>2</sup>     | <ul style="list-style-type: none"> <li>mA output</li> <li>9-18 or 18-36 VDC power supply</li> <li>ADVANCED USB configuration <sup>3</sup></li> <li>ETHERNET configuration <sup>3</sup></li> <li>GSM/GPRS configuration <sup>3</sup></li> <li>WIFI configuration <sup>3</sup></li> </ul> | <ul style="list-style-type: none"> <li>mA Water Meter input</li> <li>POWER SUPPLY 9-30 VDC</li> <li>ADVANCED USB configuration <sup>3</sup></li> <li>ETHERNET configuration <sup>3</sup></li> <li>GSM/GPRS configuration <sup>3</sup></li> <li>MODBUS configuration <sup>3</sup></li> <li>WIFI configuration <sup>3</sup></li> </ul> |

<sup>1</sup> Chlorine probe:

|             |              |
|-------------|--------------|
| SCL 3S/20   | 0-20.00 mg/l |
| SCL 3N/2    | 0-2.000 mg/l |
| SCL 3N/20   | 0-20.00 mg/l |
| SCL 3N/200  | 0-200.0 mg/l |
| SCL 8/2     | 0-2.000 mg/l |
| SCL 8/20    | 0-20.00 mg/l |
| SCL 9/200   | 0-200.0 mg/l |
| SCL 10/2    | 0-2.000 mg/l |
| SCL 10/20   | 0-20.00 mg/l |
| SCL 11/200  | 0-200.0 mg/l |
| SCL 11/2000 | 0-2000 mg/l  |

|                             |                    |
|-----------------------------|--------------------|
| SCL 2/2                     | 0-2.000 mg/l       |
| SCL 2/20                    | 0-20.00 mg/l       |
| SCL 17/2                    | 0-2.000 mg/l       |
| SCL 17/20                   | 0-20.00 mg/l       |
| SCL 18/2                    | 0-2.000 mg/l       |
| SCL 18/20                   | 0-20.00 mg/l       |
| SBR 20                      | 0-20.00 mg/l       |
| OPEN AMPEROMETRIC CELL      |                    |
| ECL 4, 5, 6, 6E, 7, 12, 12E | 0-10.00 mg/l or Br |

<sup>2</sup> On request.

<sup>3</sup> For configuration features refer to the table at the end of the document.

## CONFIGURATIONS

| INSTRUMENT Configuration | PLUS                                        | WHEN                                                                          | REQUIREMENTS       | FUNCTION                                                                                                                                                         |
|--------------------------|---------------------------------------------|-------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BASIC (standard)</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/GPRS</b>          | GPRS 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>MODBUS</b>            | Connection to other devices (PLC) via RS485 | PLC plant management                                                          | /                  | PLC connection output for reading and modifying parameters                                                                                                       |