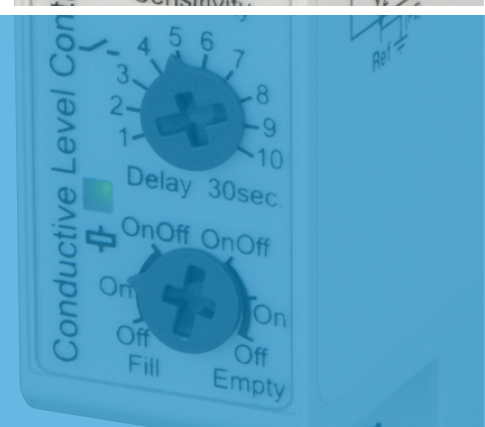
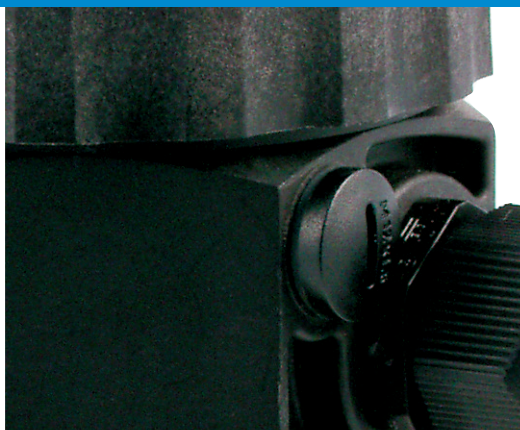




## Conductive level program

# Sensors

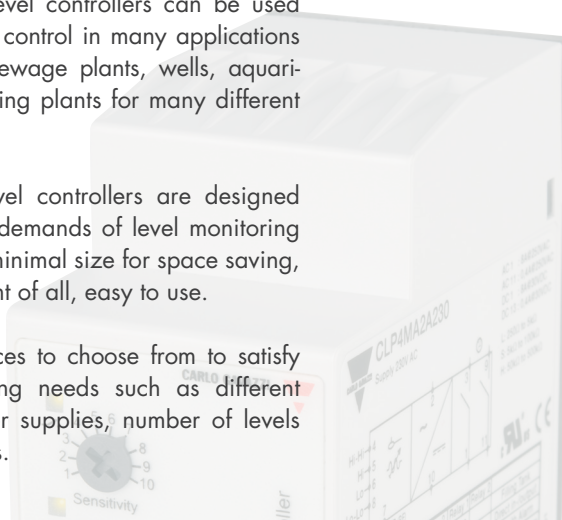
# CL - Series

## Conductive level program

The CL series of conductive level controllers can be used for level monitoring and pump control in many applications such as in tanks, reservoirs, sewage plants, wells, aquariums, swimming pools and mixing plants for many different conductive liquids.

Carlo Gavazzi conductive level controllers are designed specifically to meet the many demands of level monitoring such as flexibility, robustness, minimal size for space saving, affordability and most important of all, easy to use.

There are many different choices to choose from to satisfy every different level monitoring needs such as different housing, wide range of power supplies, number of levels required, cascading and others.



## The complete product range for level measurement

### Electrode probe

CL series can be used with all the Carlo Gavazzi's level probes that includes from 1 electrode up to 5 electrodes and also the level hanging probes.

### Various level control functions

The level controllers can perform various level control functions such as filling, emptying or combinations of the two. It can also be cascaded up to 7 controllers for many levels. This provides full flexibility and adaptability for various applications.

### Easy adjustments

The level controllers functions and sensitivity can be easily set and tuned by means of rotary switches and potentiometer. This makes installation and maintenance very easy.

### Wide range of power supply

Many different power supply ranges to choose from such as 24VAC, 115VAC, 230VAC, 24VDC Or the CLD2EB1BU24 with 24-240VAC/DC.

### LED status indication

Front LEDs indicate clearly the power state and status of each of the output relays for easy monitoring.

### Space-saving design

The level controller is available in the compact 17.5 mm for extra panel space saving or the standard 35mm wide DIN-rail or 11 pin plug housing for different installation needs.

### Approvals and markings

Exceptional and proven quality with UL, CSA and CE certified



## Applications

### Agriculture

- Level control in slurry tanks, water tanks, reservoirs, sewage plants, underground wells and mixing plants
- Flow detection in pipes, channels, and irrigation systems



### Chemical

- Level in chemical tanks
- Indication of liquid build-up due to filter blockages.
- Alarm control warning of abnormal or dangerously high or low levels.



### Food & beverage

- Level detection of liquids such as milk products, beer, wine, soft drinks and water, but also sticky or abrasive products such as chocolate or jam.



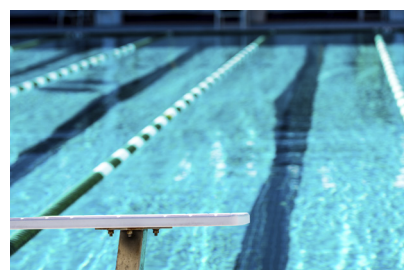
### Water distribution/treatment

- For level and pump control
- Fill level control of purified city water, industrial water or sewage
- Hot water supply heated by solar energy
- Filling application of tank level



### Swimming pool

- Swimming pools level control with level hanging probe



# CL - Series

## Conductive level program

### CLD1EA, 1-point basic level controller

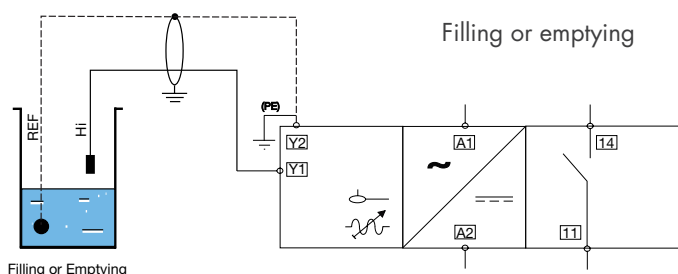
Slim 17.5 wide DIN-rail housing for excellent space saving and basic sensitivity range that covers the conductivity

of most standard liquids in most applications. Equipped also with time delay from 1 to 30 seconds.

#### Features

- Max./min. control of filling or emptying of liquids by means of one level and a time delay function.
- Compact housing for mounting on standard rails in cabinet.
- Adjustable sensitivity by means of the potentiometer settings.
- SPST relay.
- Time settings from 1 to 30 seconds for filling or emptying.

#### Operation diagram



#### Technical data

|                       |                                   |
|-----------------------|-----------------------------------|
| Sensitivity           | 5k $\Omega$ to 150K $\Omega$      |
| Power supply          | 24 VAC/DC                         |
| Operating temperature | -20° to +50°C<br>(-4° to + 122°F) |
| Input probe           | 1 + reference                     |
| Outputs               | 1 x SPST relay                    |
| AC1                   | 8A/250 VAC                        |
| Approvals             | UL508, CSA, CE                    |



### CLD2EA & CLP2EA, 2-point level controller

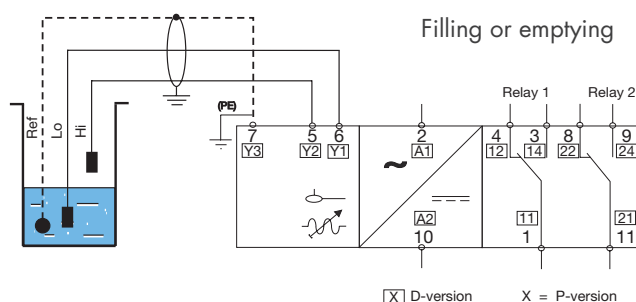
Level controller with an extended sensitivity range that covers the conductivity of most liquids such as chemi-

cals, sewage water, sea water, distilled water, etc.

#### Features

- Max./min. control of filling or emptying (charging or discharging) of liquids between two levels.
- Compact housing for mounting on standard DIN-rail or 11-pin plug-in socket.
- Extended and adjustable sensitivity by means of potentiometer with 3 sensitivity ranges.
- DPDT relay.

#### Operation diagram



#### Technical data

|                       |                                   |
|-----------------------|-----------------------------------|
| Low sensitivity       | 250 $\Omega$ to 5K $\Omega$       |
| Medium sensitivity    | 5k $\Omega$ to 100K $\Omega$ v    |
| High sensitivity      | 50k $\Omega$ to 500K $\Omega$     |
| Power supply          | 24 VAC/DC,<br>115 VAC, 230 VAC    |
| Operating temperature | -20° to +50°C<br>(-4° to + 122°F) |
| Input probe           | 2 + reference                     |
| Outputs               | 1 x DPDT relay                    |
| AC1                   | 8A/250 VAC                        |
| Approvals             | UL508, CSA, CE                    |



## CLD2EB1BU24, slim housing 2 point level controller

Slim 17.5mm wide housing for excellent space saving. The level controller has extended sensitivity range that covers the conductivity of most liquids

in any applications. Wide range of power supply from 24-240VAC/DC in a single unit ensures flexibility and reduces inventory.

### Features

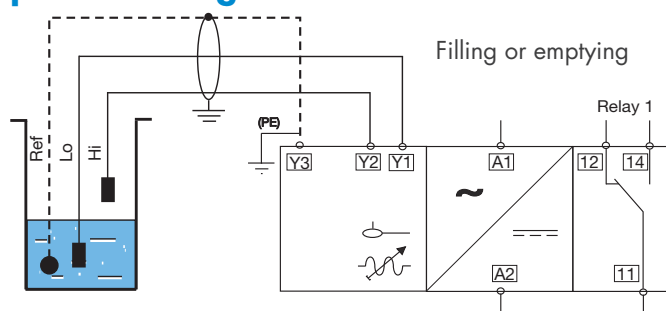
- Max./min. control of filling or emptying of liquids between two levels.
- 17.5mm slim housing for mounting on standard DIN-rail
- Wide power supply 24-240VAC/DC
- Extended and adjustable sensitivity by means of potentiometer with 3 sensitivity ranges
- SPDT relay



### Technical data

|                       |                                   |
|-----------------------|-----------------------------------|
| Low sensitivity       | 250Ω to 5KΩ                       |
| Medium sensitivity    | 5kΩ to 100KΩ                      |
| High sensitivity      | 50kΩ to 500KΩ                     |
| Power supply          | 24-240 VAC/DC                     |
| Operating temperature | -20° to +50°C<br>(-4° to + 122°F) |
| Input probe           | 2 + reference                     |
| Outputs               | 1 x SPDT relay                    |
| AC1                   | 8A/250 VAC                        |
| Approvals             | cULus, CE                         |

### Operation diagram



## CLP2EB, 2 point basic level controller

Simple and easy to use level controller with basic sensitivity range that

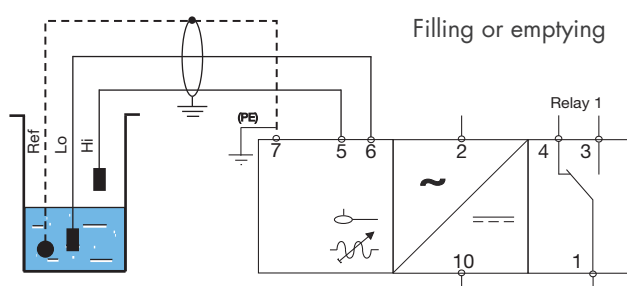
covers the conductivity of most standard liquids in most applications.

### Features

- Max./min. control of filling or emptying of liquids between two levels.
- Compact housing for mounting on standard 11 pin plug in socket
- Adjustable sensitivity by means of potentiometer settings.
- SPDT relay
- Good price to performance ratio



### Operation diagram



### Technical data

|                       |                                   |
|-----------------------|-----------------------------------|
| Low sensitivity       | 5Ω to 150KΩ                       |
| Power supply          | 24 VDC, 24 VAC, 115 VAC, 230 VAC  |
| Operating temperature | -20° to +50°C<br>(-4° to + 122°F) |
| Input probe           | 2 + reference                     |
| Outputs               | 1 x SPDT relay                    |
| AC1                   | 8A/250 VAC                        |
| Approvals             | UL508, CSA, CE                    |

# CL - Series

## Conductive level program

### CLP2FA, 2-point level controller, cascade coupling

A state of the art level controller that can cascade up to 7 units for many different levels. The main unit is the master that can link with several slaves for the

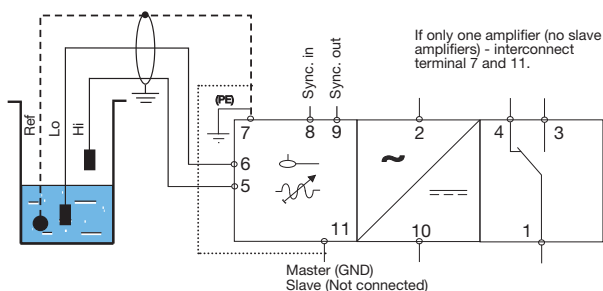
desired amount of levels. It can also be used as a standalone system with just 1 unit.



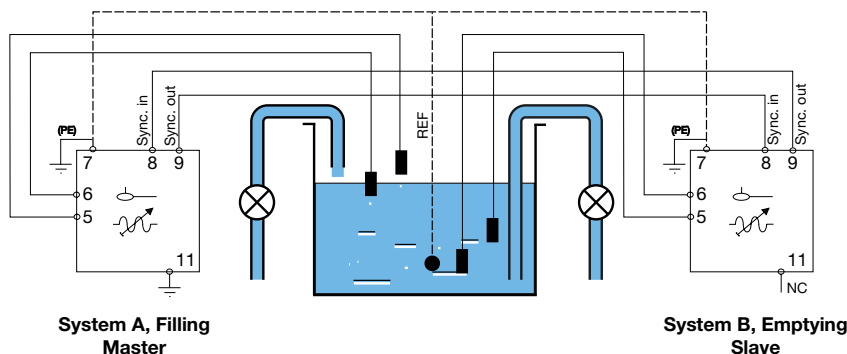
### Features

- Max./min. control of filling or emptying of liquids between two levels.
- Compact housing for mounting with 11-pin plug-in socket.
- Extended and adjustable sensitivity by means of potentiometer with 3 sensitivity ranges.
- SPDT relay.
- Master/slave system for cascade connecting of up to seven systems.

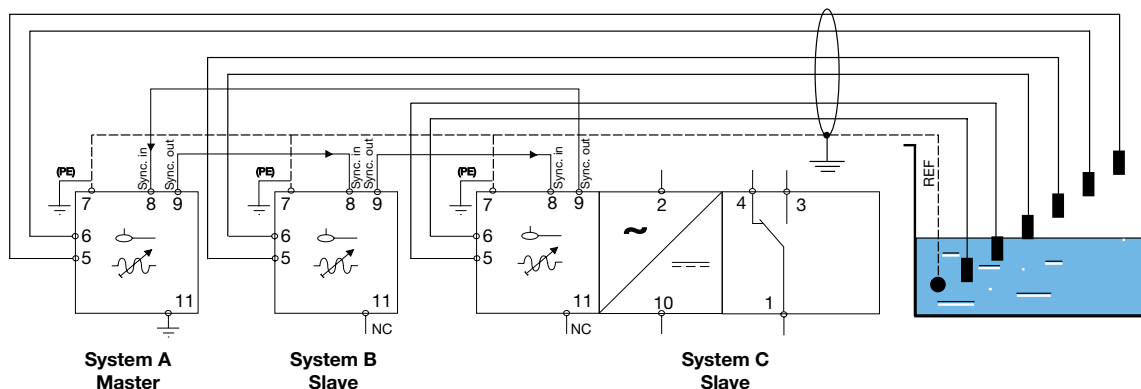
### Operation diagram



Filling and emptying with more systems in one common tank



Multilevel application in one tank



### Technical data

|                       |                               |
|-----------------------|-------------------------------|
| Low sensitivity       | 250Ω to 5KΩ                   |
| Medium sensitivity    | 5kΩ to 100KΩv                 |
| High sensitivity      | 50kΩ to 500KΩ                 |
| Power supply          | 24 VAC/DC, 115 VAC, 230 VAC   |
| Operating temperature | -20° to +50°C (-4° to +122°F) |
| Input probe           | 2 + reference                 |
| Outputs               | 1 x SPDT relay                |
| AC1                   | 8A/250 VAC                    |
| Approvals             | UL508, CSA, CE                |

## CLD4MA & CLP4MA, 2 to 4-point level controller

Advanced level controller with 2 to 4 levels that can be configured in many different operating modes. The controller can handle up to 2 filling operations

or 2 emptying operations or combination of these. It can also operate with HiHi or LoLo alarm or in a tank-well situation.

### Features

- Max./min. control of filling or emptying of liquids between two levels.
- Compact housing for mounting with 11-pin plug-in socket or DIN-rail.
- Extended and adjustable sensitivity by means of potentiometer with 3 sensitivity ranges.

- SPDT & SPST (Din Rail); 2 x SPST (Plug In)
- Able to work in 4 different modes with many combinations

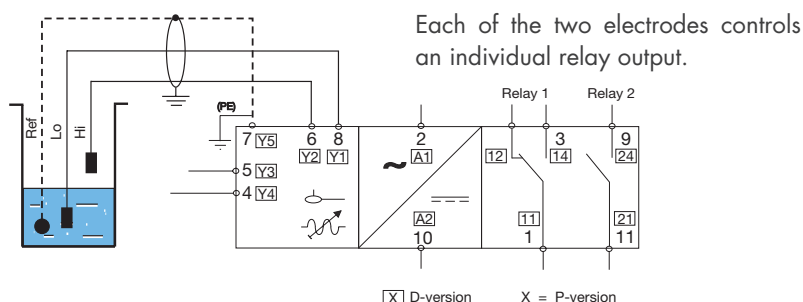


### Technical data

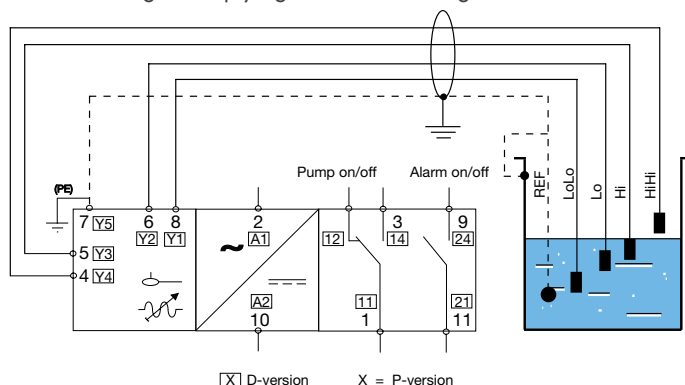
|                       |                                |
|-----------------------|--------------------------------|
| Low sensitivity       | 250Ω to 5KΩ                    |
| Medium sensitivity    | 5kΩ to 100KΩv                  |
| High sensitivity      | 50kΩ to 500KΩ                  |
| Power supply          | 24 VAC/DC, 115 VAC, 230 VAC    |
| Operating temperature | -20° to +50°C (-4° to + 122°F) |
| Input probe           | 4 + reference                  |
| Outputs               | 1 x SPDT & 1 x SPST relay      |
| AC1                   | 8A/250 VAC                     |
| Approvals             | UL508, CSA, CE                 |

### Operation diagram

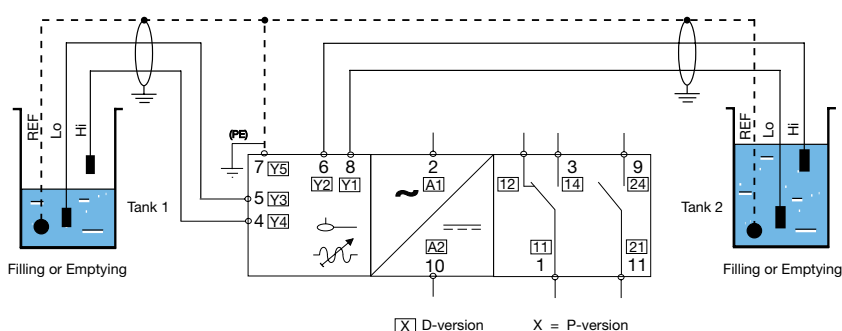
#### Mode 1: Direct input - output



#### Mode 2: Filling or emptying with low and high alarms.



#### Mode 3: 2 in 1



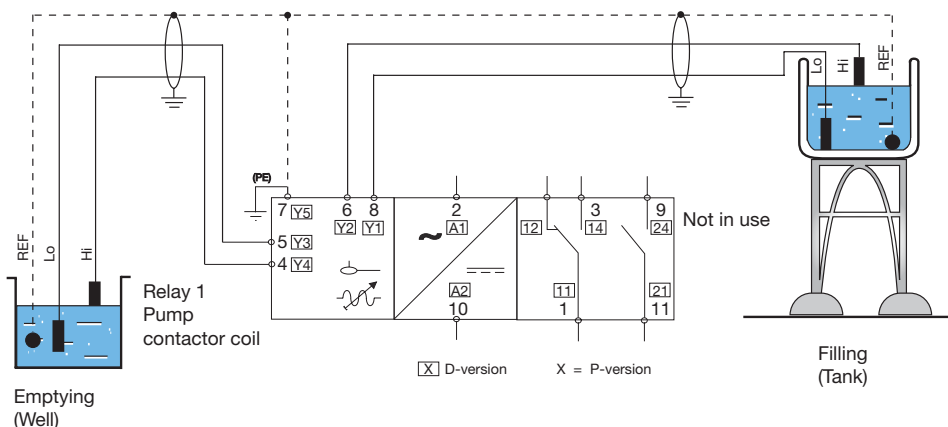
Filling or emptying of up to 2 systems with the same kind of liquid to be measured. Customer can just use one controller for 2 installations.

# CL - Series

## Conductive level program

### CLD4MA & CLP4MA, 2 to 4-point level controller

#### Mode 4: Tank - Well



Maximum and minimum control of two systems, a filling system and a emptying system with the same kind of liquid to be measured and one common pump especially in application to transfer from one tank to another tank.

### Type selection - level controller

| Mounting                                           | Relay       | Power supply |             |             |             |             |               |
|----------------------------------------------------|-------------|--------------|-------------|-------------|-------------|-------------|---------------|
|                                                    |             | 115 VAC      | 230 VAC     | 24 VAC/DC   | 24 VAC      | 24 DC       | 24-240 VAC/DC |
| CLD1, 1-point basic level controller               |             |              |             |             |             |             |               |
| DIN-rail                                           | SPST        | -            |             | CLD1EA1CM24 | -           |             |               |
| CLD2 & CLP2, 2-point level controller              |             |              |             |             |             |             |               |
| DIN-rail                                           | DPDT        | CLD2EA1C115  | CLD2EA1C230 | CLD2EA1CM24 | -           |             |               |
| 11-pin plug*                                       | DPDT        | CLP2EA1C115  | CLP2EA1C230 | CLP2EA1CM24 | -           |             |               |
| CLD2EB1BU24, slim housing 2 point level controller |             |              |             |             |             |             |               |
| DIN-rail                                           | SPDT        | -            |             |             |             |             | CLD2EB1BU24   |
| CLP2EB, 2 point basic level controller             |             |              |             |             |             |             |               |
| 11-pin plug*                                       | SPDT        | CLP2EB1B115  | CLP2EB1B230 | -           | CLP2EB1B024 | CLP2EB1B724 | -             |
| CLP2FA, 2-point level controller, cascade coupling |             |              |             |             |             |             |               |
| 11-pin plug*                                       | SPDT        | CLP2FA1BM115 | CLP2FA1B230 | CLP2FA1BM24 | -           |             |               |
| CLD4MA & CLP4MA, 2 to 4 point level controller     |             |              |             |             |             |             |               |
| DIN-rail                                           | SPDT + SPST | CLD4MA2D115  | CLD4MA2D230 | CLD4MA2DM24 | -           |             |               |
| 11-pin plug*                                       | 2 SPST      | CLP4MA2A115  | CLP4MA2A230 | CLP4MA2AM24 | -           |             |               |

#### Accessories

\* The 11-pin plug in level controller requires base socket which must be purchased separately with the part no ZPD11A.

## CLH3 & CLH5 level probes

Flexible conductive level probe that can accommodate up to five electrodes for four different levels with 1 electrode used for reference. The electrodes are available without isolation or coated

with isolation material for aggressive or sticky mediums. Length of the electrode can be extended by using extension electrode according to the requirements.

### Features

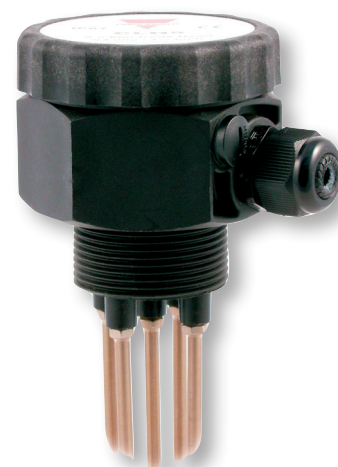
- Mounting probe head up to 5 electrodes (CLH 5) or 3 electrodes (CLH 3)
- Electrode length can be extended using extension electrodes.
- With Isolation or without isolation electrodes.

### Technical data probe head

|                           |                                      |
|---------------------------|--------------------------------------|
| Material                  | Polypropylene                        |
| No of possible electrodes | 3 or 5                               |
| Degree of protection      | IP65 (Housing)<br>IP68 (Elec. Conn.) |
| Operating temperature     | -20° to 90°C<br>(-4° to + 194°F)     |
| Electrode connection      | Screw terminals                      |

### Technical data electrodes

|           |                         |
|-----------|-------------------------|
| Material  | Stainless steel AISI316 |
| Length    | 1000 mm                 |
| Diameter  | Ø 4 mm                  |
| Isolation | Kynar or polyolefine    |



## Type selection - probes and electrodes

|                                            | Probes           |                  | Electrodes                                       |                                                                                                          |                                                                   |
|--------------------------------------------|------------------|------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
|                                            | For 3 electrodes | For 5 electrodes | 1000 mm basic                                    | 2000 mm extended                                                                                         | Extension 1000 mm                                                 |
|                                            | <b>CLH3</b>      | <b>CLH5</b>      | -                                                | -                                                                                                        | -                                                                 |
| Electrode without isolation                | -                | -                | <b>CLE1</b>                                      | <b>CLE2</b>                                                                                              | <b>CLE1X</b>                                                      |
| Electrode with isolation, kynar (PVDF)     | -                | -                | <b>CLE1K</b>                                     | <b>CLE2K</b>                                                                                             | <b>CLE1KX</b>                                                     |
| Electrode with isolation, polyolefine (FR) | -                | -                | <b>CLE1P</b>                                     | <b>CLE2P</b>                                                                                             | <b>CLE1PX</b>                                                     |
| Pipe thread                                | 1.5"             |                  | -                                                |                                                                                                          |                                                                   |
| Housing material                           | PP               |                  | -                                                |                                                                                                          |                                                                   |
| Description                                | -                |                  | 1000 mm basic electrode for no further extension | 1000 mm basic electrode for extension. 1000 mm extension electrode. 1 extension joint. 1 isolation tube. | 1000 mm extension electrode. 1 extension joint. 1 isolation tube. |

- Please order 3 electrodes if using CLH3 or 5 electrodes if using CLH5.
- Example: if you need 3 levels with Kynar isolated 1m probe, you need to order 1 x CLH3 + 3 x CLE1K.
- Please order CLE1X or CLE1KX or CLE1PX if you require further extension according to the isolation type required.

# Probe - Series

## Conductive level program

### VH3 & VH4 hanging probes

VH3 is a level hanging probe specifically designed to be used in swimming pools and resists high chlorine and high salinity. It is also suitable to be used in wells, reservoirs and tanks.

VH4 is a simple and easy to install level probe for general use. VH3-4-MB1 Snap-on brackets for easy and secure installation.



VH3

VH4

### Features

- VH3 – resistant to chlorine and salinity and suitable for use in swimming pools
- VH4- simple and easy to install probe for general use and comes with double screw terminal for secure cable connection
- Can be used outdoors under sunlight
- Snap on bracket for easy installation

### Technical data VH3

|                       |                              |
|-----------------------|------------------------------|
| Electrode material    | Stainless steel AISI316      |
| Housing material      | Polycarbonate                |
| Over mould material   | PA6                          |
| Operating temperature | 0° to +80°C (32° to + 176°F) |
| Connection            | 6 m UV resistant PVC cable   |

### Technical data VH4

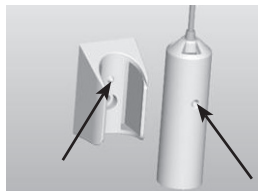
|                       |                              |
|-----------------------|------------------------------|
| Electrode material    | Stainless steel AISI304      |
| Housing material      | Polycarbonate                |
| Operating temperature | 0° to +80°C (32° to + 176°F) |
| Connection            | 2 x M4 Screw terminal        |

### VH3-4-MB1

- Snap on bracket exclusively for VH3 and VH4
- Positioning pin on the bracket ensures right installation
- Durable polycarbonate bracket



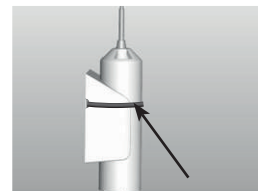
### Installation



**Step 1**  
Align the probe to the positioning pin of the bracket. Clamp the probe firmly in place.



**Step 2**  
A misalignment of the pin and the blind hole prevents proper installation of the probe.



**Step 3**  
Once the probe is snapped into the bracket, you can secure it with a cable tie around the recess on the rear of the bracket.

### Type selection - hanging probes

|                  |                  |
|------------------|------------------|
| 6 m cable        | <b>VH3</b>       |
| No cable         | <b>VH4</b>       |
| Snap-on bracket* | <b>VH3-4-MB1</b> |

\* Bracket to be purchased separately. Bracket only for VH3 and VH4.

## Conductive level sensors

| Types                   | VN / VNI                                                                          |      | VNY / VNYI                                                                        |       | VPC                                                                               |        | VPP                                                                                 |        | VT / VTI                                                                            |      |
|-------------------------|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|------|
| Connections             | Cable 2 m (PVC)                                                                   |      | Screw connection                                                                  |       | Screw connection                                                                  |        | Screw connection                                                                    |        | Cable 1 m (Silicone)                                                                |      |
|                         |  |      |  |       |  |        |  |        |  |      |
| Electrodes              |                                                                                   |      |                                                                                   |       |                                                                                   |        |                                                                                     |        |                                                                                     |      |
| Number of electrodes    | 1, 2, 3 or 4                                                                      |      | 1, 2, 3 or 4                                                                      |       | 1, 2 or 3                                                                         |        | 1, 2 or 3                                                                           |        | 1, 2, 3 or 4                                                                        |      |
| Diameter/length (mm)    | D5/1000                                                                           |      | D5/1000                                                                           |       | D4/500                                                                            |        | D4/500                                                                              |        | D5/1000                                                                             |      |
| Material                | Stainless steel                                                                   |      | Stainless steel                                                                   |       | Stainless steel                                                                   |        | Stainless steel                                                                     |        | Stainless steel                                                                     |      |
| Isolation of electrodes | Yes (VNI)                                                                         |      | Yes (VNYI)                                                                        |       | Yes                                                                               |        | Yes                                                                                 |        | Yes (VTI)                                                                           |      |
| Isolation               | Polyethylene                                                                      |      | Polyethylene                                                                      |       | Polyethylene                                                                      |        | PVDF                                                                                |        | Teflon                                                                              |      |
| Housing                 |                                                                                   |      |                                                                                   |       |                                                                                   |        |                                                                                     |        |                                                                                     |      |
| Pipe thread             | 1 ½"                                                                              |      | 1 ½"                                                                              |       | ½" (VPCx05) or<br>1" (VPCx10)                                                     |        | ½" (VPPx05) or<br>1" (VPPx10)                                                       |        | 1 ½"                                                                                |      |
| Material                | Nylon 6                                                                           |      | Nylon 6                                                                           |       | PVC                                                                               |        | Polyethylene                                                                        |        | Teflon                                                                              |      |
| References              |                                                                                   |      |                                                                                   |       |                                                                                   |        |                                                                                     |        |                                                                                     |      |
| 1 electrode             | VN1                                                                               | VNI1 | VNY1                                                                              | VNYI1 | VPC105                                                                            | VPC110 | VPP105                                                                              | VPP110 | VT1                                                                                 | VTI1 |
| 2 electrodes            | VN2                                                                               | VNI2 | VNY2                                                                              | VNYI2 | VPC205                                                                            | VPC210 | VPP205                                                                              | VPP210 | VT2                                                                                 | VTI2 |
| 3 electrodes            | VN3                                                                               | VNI3 | VNY3                                                                              | VNYI3 |                                                                                   | VPC310 |                                                                                     | VPP310 | VT3                                                                                 | VTI3 |
| 4 electrodes            | VN4                                                                               | VNI4 | VNY4                                                                              | VNYI4 |                                                                                   |        |                                                                                     |        | VT4                                                                                 | VTI4 |
| Specifications          |                                                                                   |      |                                                                                   |       |                                                                                   |        |                                                                                     |        |                                                                                     |      |
| Degree of protection    | IP67                                                                              |      | IP67                                                                              |       | IP67                                                                              |        | IP67                                                                                |        | IP67                                                                                |      |
| Operating temperature   | 0°C to 90°C                                                                       |      | 0°C to 90°C                                                                       |       | 0°C to 60°C                                                                       |        | 0°C to 100°C                                                                        |        | 0°C to 145°C                                                                        |      |
| Approvals/marks         | CE                                                                                |      | CE                                                                                |       | CE                                                                                |        | CE                                                                                  |        | CE                                                                                  |      |

| Types                   | VH1 / VH2                                                                           | VH3                                                                                 | VH4                                                                                  | A 94-10                                                                               |
|-------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Connections             | Cable 5 m (Neoprene)                                                                | Cable 6 m (UV resistant PVC)                                                        | Screw connection                                                                     | Cable 6 m (PVC)                                                                       |
|                         |  |  |  |  |
| Electrodes              |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
| Number of electrodes    | 1                                                                                   | 1                                                                                   | 1                                                                                    | 2                                                                                     |
| Diameter/length (mm)    | D18/36.5 or D32/75.5                                                                | D19/65                                                                              | D19/65                                                                               | D22/75.0                                                                              |
| Material                | Stainless steel                                                                     | Stainless steel                                                                     | Stainless steel                                                                      | Stainless steel                                                                       |
| Isolation of electrodes | No (VH1) - Yes (VH2)                                                                | No                                                                                  | No                                                                                   | No                                                                                    |
| Isolation               | Nylon 6                                                                             | -                                                                                   | -                                                                                    | -                                                                                     |
| Housing                 |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
| Material                | Nylon 6                                                                             | Polycarbonate                                                                       | Polycarbonate                                                                        | Polyester                                                                             |
| References              |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
| 1 electrode             | VH1 OR VH2                                                                          | VH3                                                                                 | VH4                                                                                  | -                                                                                     |
| 2 electrodes            | -                                                                                   | -                                                                                   | -                                                                                    | A 94-10                                                                               |
| Snap On Bracket         | -                                                                                   | VH3-4-MB1                                                                           | VH3-4-MB1                                                                            | -                                                                                     |
| Specifications          |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
| Degree of protection    | IP67                                                                                | IP67                                                                                | -                                                                                    | IP67                                                                                  |
| Operating temperature   | 0°C to 90°C                                                                         | 0°C to 80°C                                                                         | 0°C to 80°C                                                                          | 0°C to 60°C                                                                           |
| Approvals/marks         | CE                                                                                  | CE                                                                                  | CE                                                                                   | CE                                                                                    |

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Kunshan

### MALTA

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Zejtun

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