

### Level device for level control LLD 200 for top hat rail mounting

#### Features

- Level evaluation module for assembly in top hat rail in switchboards
- Channel 1 simple tank / level control
- Conductive measuring methods
- Narrow housing design 22.5 mm
- Adjustment of the sensitivity possible by potentiometer
- Time lag adjustable by potentiometer
- Pump control with 3-rod probe integrated
- Channel 2 applicable separately as protection against dry running or full detector
- Relay output 2 changer or active electronic outputs PNP
- 2 status-LED at front site

#### Technical specifications

- Function channel 1 level control invertible (full / empty) switching delay adjustable 0.5...10 sec. full/empty message function without delay
- Function channel 2 230 VAC, 24 VAC or 24 VDC
- Auxiliary supply 5 VAC
- Electrode supply 1...100 kOhm
- Outputs 2 changer or electronic outputs 24 VDC PNP 0.5...10 sec adjustable, channel 1 level controller 0.5 sec fixed, channel 2 full/empty detection
- Time delay 22.5 mm
- Width of housing

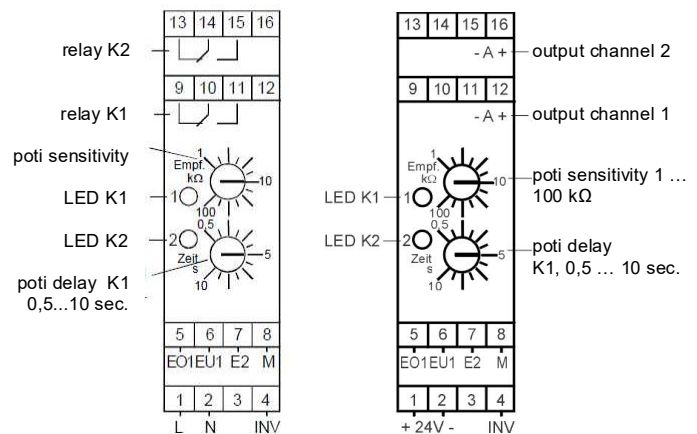


**LLD 200-3-A-1**

#### Setting-up advices

- Connect device like description in the installation chart
- Potentiometer time lag and potentiometer sensitivity open minimum (left arrester) setting up
- Increase the fill level, so far that the electrode EO1 is covered safe
- Turn the potentiometer sensitivity to the right, as far as the relay switched safe or rather the status-LED for channel 1 switches to green
- If required please adjust the time lag with the potentiometer
- The level function can be inverted with clamp 4 (on ground)

- 1 power supply 230 V L1 // 24 VDC+
- 2 power supply 230 V N // 24 VDC
- 3 not clogged
- 4 inverting level function channel 1 (strap on Kl.8 M)
- 5 electrode channel 1 top
- 6 electrode channel 1 down
- 7 electrode channel 2
- 8 ground (barrier of the case)
- 9 relay K1 opening contact // not clogged
- 10 relay K1 // not clogged
- 11 relay K1 closing contact // not clogged
- 12 not clogged // PNP output channel 1
- 13 relay K2 opening contact // not clogged
- 14 relay K2 // not clogged
- 15 relay K2 closing contact // not clogged
- 16 not clogged // PNP output channel 2



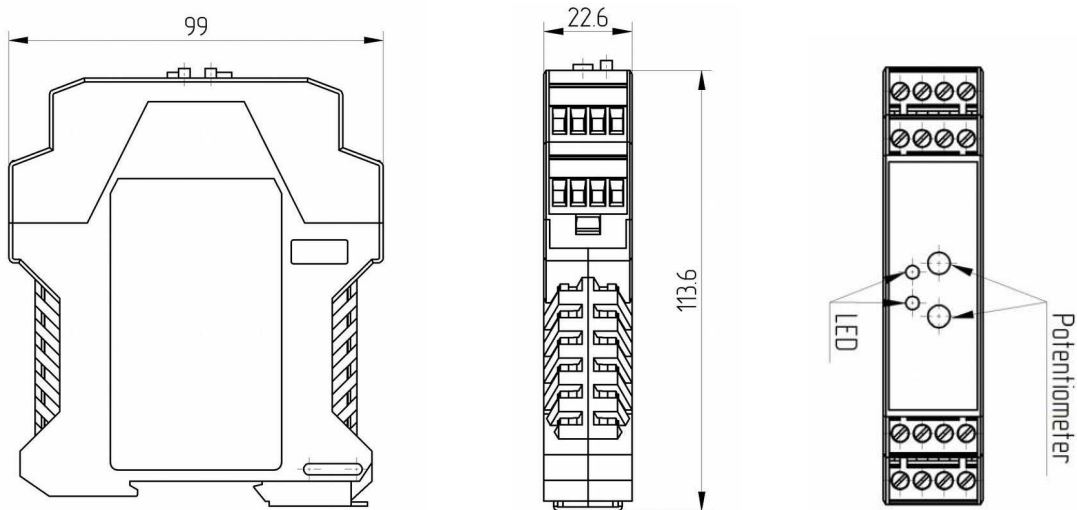
**LLD 200-1-A-1**

**LLD 200-3-A-2**

#### Product benefits

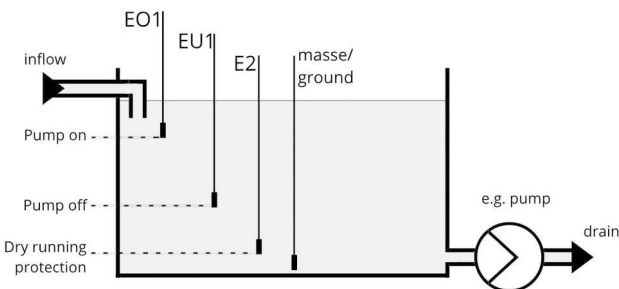
- Narrow housing design 22.5 mm
- 2-channel device (level control + full / empty signal)
- Settable time delay
- 2 x status LED integrated on the front panel
- Precise sensitivity adjustment via potentiometer

**Technical drawing**

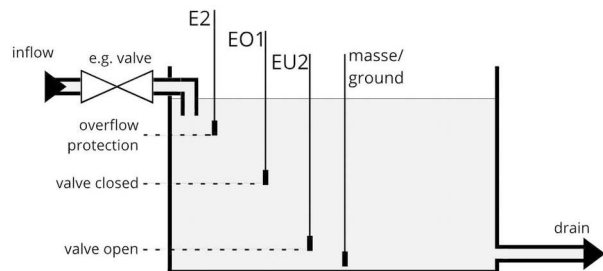


**Application example**

**Level control in tank with additional dry run protection**



**Inverted level control in tank with additional overflow protection**



**Order-code LLD 200**

order example: LLD 200-1-A-1

**Power supply**

- 1 230 VAC
- 2 24 VAC
- 3 24 VDC

**Measuring areas**

- A 1K...100KOhm

**Outputs**

- 1 relay outputs
- 2 electronic outputs PNP 24 VDC (only possible with power supply 24 VDC)

**Accessories**

- 99-001651 Connector strip as a spare part (1 piece)

For more accessories, see accessories data sheet.