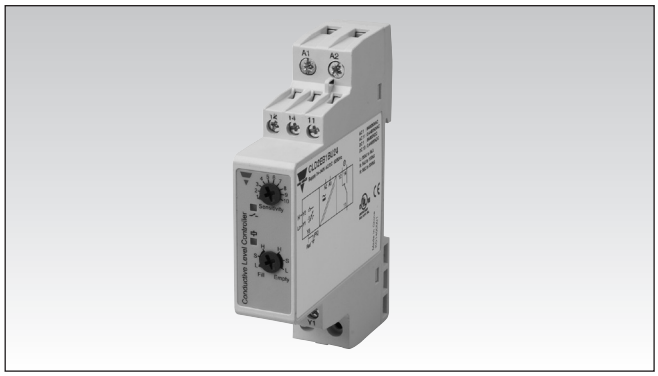
Conductive Sensors
2-point level controller
Type CL with potentiometer



- **Conductive level controller**
- **Sensitivity adjustment from 250 Ω to 500 KΩ**
- **For filling or emptying applications**
- **Low-voltage AC electrodes**
- **Easy installation on DIN rails**
- **Rated operational voltage: 24 to 240 VAC/DC**
- **Output 1 x 8 A / 250 VAC SPDT relay**
- **LED indication for: Output ON and Power ON**

Product Description

µ-Processor based level controller for liquids with a wide sensitivity range (like sewage water, chemicals, salt water etc.).

Max./min. control of charging/ discharging. The sensitivity is adjustable by means of the potentiometer.
1 x 8 A SPDT relay output.

Ordering Key

CLD2EB1BU24

- **Conductive level**
- **DIN rail**
- **No of inputs**
- **Charge/discharge**
- **Basic with potentiometer**
- **1 relay output**
- **Relay SPDT**
- **Power supply**

Type Selection

Mounting	Relay	Ordering no. Supply: 24-240 VAC/DC
DIN-rail	SPDT	**CLD2EB1BU24**

Specifications

Rated operational voltage (U_B)		
Pin 2 & 10		20 to 265 VAC/DC, 45 to 65 Hz
Rated insulation voltage		<2.0 kVAC (rms)
Rated impulse withstand voltage		4 kV (1.2/50 µs) (line/neutral)
Rated operational power		
230 VAC/DC supply		2 W
24 VAC/DC supply		1 W
Delay on operate (t_v)		< 2 s
Outputs		
Rated insulation voltage		250 VAC (rms) (cont./elec.)
Relay Rating (AgCdO)		µ (micro gap)
Resistive loads	AC1	8 A / 250 VAC (2500 VA)
	DC1	1 A / 250 VDC (250 W) or 10 A / 25 VDC (250 W)
Small induc. Loads	AC15	0,4 A / 250 VAC
	DC13	0,4 A / 30 VDC
Mechanical life (typical)		≥ 30 x 10^6 operations @ 18'000 imp/h
Electrical life (typical)	AC1	> 250'000 operations
Level probe supply		Max. 5 VAC
Level probe current		Max. 2 mA
Sensitivity		250Ω to 500KΩ Factory settings standard range "S" 100KΩ
Ranges L (Low sensitivity)		250 Ω to 5 KΩ, C_F* = 4.7 nF
Ranges S (Standard sensitivity)		5 KΩ to 100 KΩ, C_F* = 2.2 nF
Ranges H (High sensitivity)		50 KΩ to 500 KΩ, C_F* = 1.0 nF

Dielectric voltage		>2.0 KVAC (rms) (contacts / electronics)
Rated impulse withstand volt.		4 kV (1.2/50 µS) (contacts / electronics) (IEC 664)
Operating frequency (f)		
Relay output		1 Hz
Response time		
OFF-ON (t_{on})		1 s
ON-OFF (t_{off})		1 s
Environment		
Overvoltage category		III (IEC 60664)
Degree of protection		IP 20 (IEC 60529, 60947-1)
Pollution degree		2 (IEC 60664/60664A, 60947-1)
Temperature		
Operating		-20° to +50°C (-4° to + 122°F)
Storage		-40° to +85°C (-40° to +185°F)
Housing material		PA66, light grey
Weight		
AC/DC supply		125 g
UL Approvals	**cULus**	UL508
CE marking		Yes

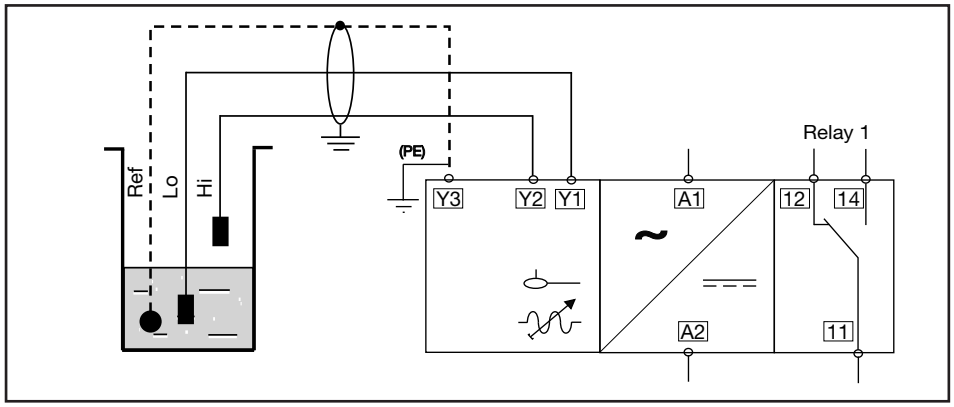
*C_F = maximum Cable Capacitance

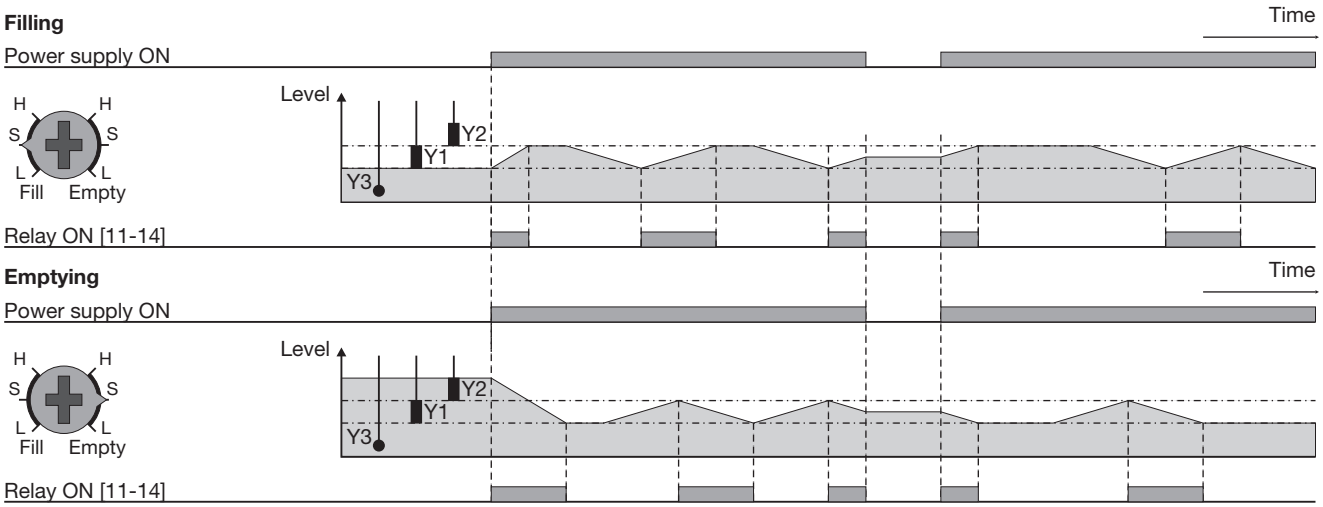
Mode of Operation

Connection cable
2, 3, or 4 conductor PVC cable, normally screened. Cable length: max. 100 m. The resistance between the cores and the ground must be at least 500k. Normally, it is recommended to use a screened cable between probe and controller, e.g. where the cable is placed in parallel to the load cables (mains). The screen has to be connected to the reference port (Ref) must be connected to Protective Earth (PE).

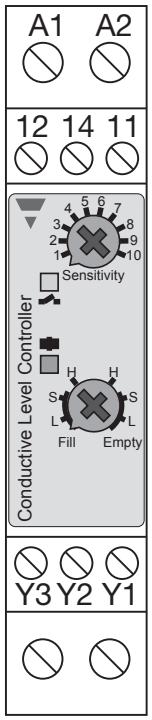
Example 1
The diagram shows the level control connected as max. and min. control. The relays react to the low alternating current created when the electrodes are in contact with the liquid.
The reference (Ref) must be connected to the container or if the container consists of a non-conductive material, to an additional electrode. (To be connected to pin Y3). (In the diagram this electrode is shown by the dotted line).

NB!
If only one level detection is required - interconnect the two inputs Y1 and Y2.

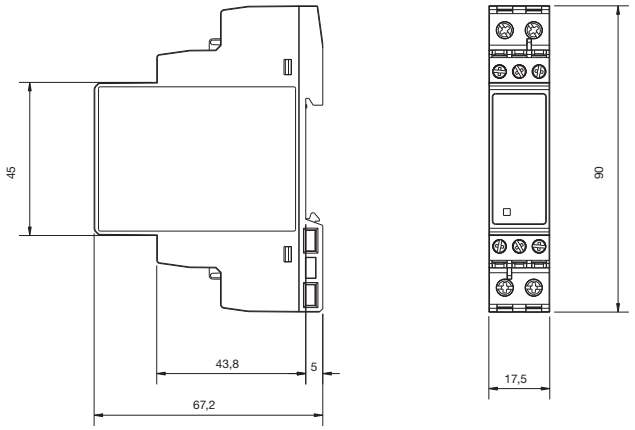




Wiring Diagram



Dimension Drawings



Delivery Contents

- Amplifier
- Packaging: Carton box
- Manual

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