

# Capacitive Level Gauge UNICON®-CL



Mounting type 04



Mounting type 01

## Technical data

### Power supply

Supply voltage : 14..30 V DC, 2-wire  
CE-conformity : EN 50022, IEC61000-4-3/4/5

### Ambient conditions

Ambient temperature : -10..+50°C  
Climatic class : EN 60068-2-38  
Protection class : IP65  
Vibration class : EN 60068-2-6, GL test2

### Input

Measuring range : 0..100 mm up to max. 3000 mm  
Repeatability : ±2 mm  
Accuracy : 0.5 % of the measuring value  
Refresh time : 1 s  
Electrical connection : screw terminal with pressure plate 2.5mm<sup>2</sup>  
IP20 acc. to German BGV A3  
: sensor/supply/outputs

### Isolation

### Outputs

Level : 4..20 mA, 2-wire  
Temperature : 4..20 mA -40..+160 °C, 2-wire  
Pt100 sensor class B acc. DIN60751  
: transistor 14..30V max. 60 mA

### Alarm

### Case

Material : Polyamide PA6-GF/GK 15/15  
Front foil Polyester  
Protection class : IP65

### Sensor

Mounting direction : only vertical  
Radiated frequency : 400 kHz  
Conductivity medium : >50 µS  
Viscosity medium : <2000 mm<sup>2</sup>/s (cSt)  
Process temperature : 0..60 / -10..+120 °C, 140 °C < 1h  
CIP-/SIP-capable

Process pressure : 0..16 bar  
Process material : PTFE with aluminum core,  
sealing FDA conform  
stainless steel 1.4404

Process connection : G ¾ A  
Stud torque : 10 Nm max.

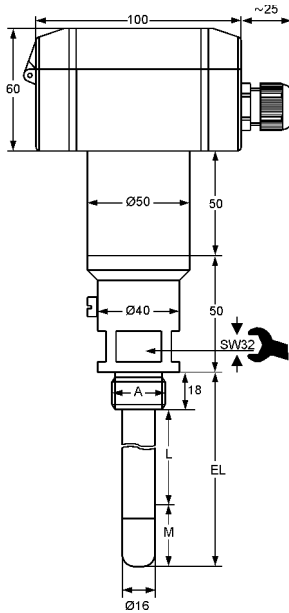
Mistakes reserved, technical specifications subject to change without notice.

Continue next page

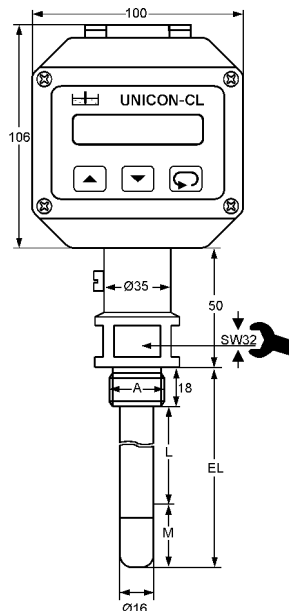
## Characteristics

- Microprocessor controlled measurement with LCD Display
- Measuring unit programmable
- Tara function (level 0)
- No moving parts in the medium
- For conductive liquids, acids or lye's
- Not for adherent media
- Temperature compensation with Pt100 sensor
- Outputs 4..20 mA 2-wire for level and temperature, measuring range programmable
- 2 alarm outputs transistor voltage free  
min or max function
- Programmable set points
- Simulation mode (manual mode) for level and temperature
- Level correction of the indicating range
- 2-point calibration to adapt the geometric of the tank
- Horizontal or vertical mounting of the electronic

### Dimensions

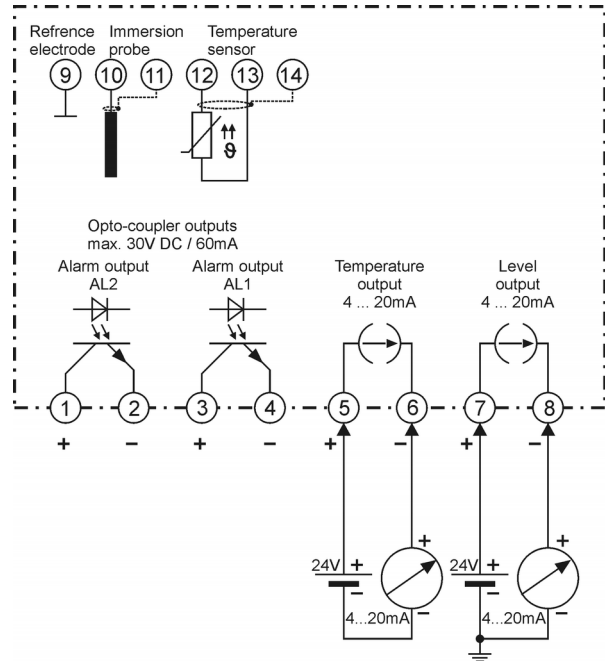


Head mounting horizontal; mounting type 01



Head mounting vertical; mounting type 04

### Connection diagram



### Ordering code

UNICON-CL -  -  -  -  -  -  -

1.	Model
1	output 4..20 mA, for level, 2 electronic alarm outputs
2	as 1, but additional temperature measurement, for temperature compensation of the probe output 4..20 mA for temperature
2.	Mounting type
01	case horizontal
04	case vertical, cable glands at the backside
3.	Sensor (M = minimal immersion depth)
1	Single sensor for metal tanks min. 20 mm (M)
2	Single sensor for plastic tanks min. 60 mm (M)
4	as 2, but reference electrode Hastelloy, for acids and lye's
4.	Medium temperature
1	0..60 °C
2	-10..+120 °C (steam sterilization 140 °C)
5.	Process connection
G 3/4 A	
6.	Mounting length EL (please state in mm)
Standard 500, 800, 1000, 1500, 2000, 2500 mm	
7.	Options
00	without option
11	2 <sup>nd</sup> cable gland M20x1.5

Following information's are needed by order:

1. type of medium
2. medium temperature