

Conductivity Meter LF1010



Characteristics

The Conductivity-Meter LF1010 has been designed for the measurement of conductivity, as a degree of the purity or concentration of a liquid. In connection with 4-electrode-conductivity cells a high accuracy and insensitivity of contamination can be achieved. A further advantage is a broad range of application with only one cell. Only for measurement in ultra-pure water a special 2-electrode conductivity cell must be used.

Technical data

Power supply

Supply voltage : 230 V AC $\pm 10\%$; 115 V AC $\pm 10\%$;
24 V AC $\pm 10\%$ or 24 V DC $\pm 15\%$

Power consumption : max. 3.5 VA

Operating temp. : -20...+55 °C

CE-conformity : EN 61326-1:2013
EN 60664-1:2007

Inputs

MR conductivity : 0..2.000(0) $\mu\text{S}/\text{cm}$ up to
0..2000 / 200(0) mS/cm (at 25 °C)

-Cell constant : 0.080..9.999

-Accuracy : 0.5 % of the measuring value, ± 2 Digit

-Temperature comp. : non linear for ultra pure water and natural
water or linear programmable from
0.000..9.999 %/K

MR temperature : -50.0..200.0 °C; Sensor Pt100 or Pt1000

-Accuracy : ± 0.2 °C

Display : LED red, 14.2 mm

Indicating range : 2000(0) Digit with leading zero suppression

Parameter display : LED 2-digit red, 7 mm
(Parameter - and output indicator)

Outputs

Relay : SPDT < 250 V AC < 250 VA < 2 A,
 < 300 V DC < 50 W < 2 A

Field case : Material PA6-GF15/15, keypad polyester

Dimensions : 100x100x60 mm

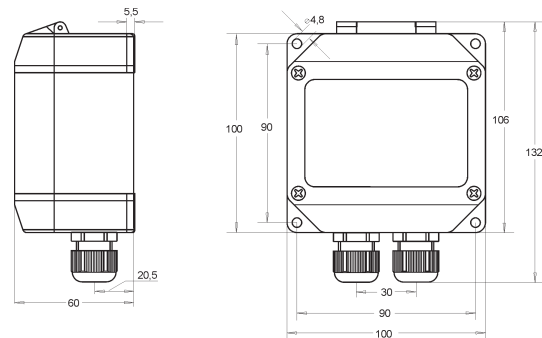
Weight : max. 450 g

Connection : clamp terminals

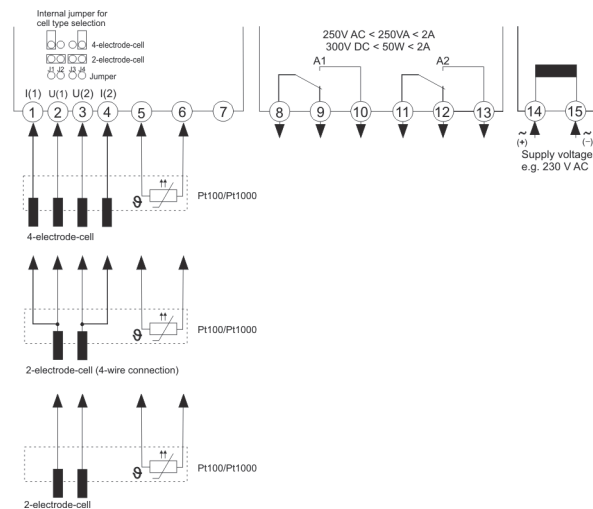
	<i>single wire</i>	<i>flexi wire</i>
Terminals 1-4	0.75 mm ² , AWG18	0.5 mm ² , AWG 20
Terminals 5-15	2.5 mm ² , AWG13	1.5 mm ² , AWG 15

Protection class : IP65, terminals IP20 acc. to BGV A3

Dimensions



Connection diagram



Ordering code

LF1010 - 1. - 2. - 3. - 4. - 5. - 6.

1. Input		
1	input for 2- or 4-electrode-cells, temperature compensation via Pt100	
3	as 1, but temperature compensation via Pt1000	
2. Alarm output		
00	not installed	
2R	2 relay	
3. Supply voltage		
0	230 V AC	±10 % 50-60Hz
1	115 V AC	±10 % 50-60Hz
4	24 V AC	±10 % 50-60Hz
5	24 V DC	±15 %
4. Options		
00	without option	
01	min- and max-peak hold	
09	1xM20x1.5 Multi (2xØ6 mm), 1xM20x1.5	
14	measuring and monitoring of ultra-pure water acc. to USP<645>	
5. Unit appears on the unit field		
6. Additional text above the display (3x70 mm HxW)		