

Produktinformation

Conductivity Meter LF9648



Passive

Accuracy
Case

Dimensions
Weight
Connection

: 4..20 mA, ext.
burden = $RA[\Omega] \leq (\text{supply} - 5 \text{ V}) \div 0.02 \text{ A}$;
supply voltage 5..30 V DC,
: 0.1 %; TK 0.01 %/K
: panel mounting DIN 96x48 mm,
material PA6-GF; UL94V-0
: front 96x48 mm, mounting depth 100 mm,
: max. 390 g
: clamp terminals, 0.08..1.5 mm²,
AWG28..AWG14

Characteristics

The Conductivity Meter LF9648 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 ± 10 %; 115 V AC ± 10 %;
24 V AC ± 10 % or 24 V DC ± 15 %
Power consumption : max. 3.5 VA, 5 VA with analog output
Operating temp. : -10..+55 °C
Conformity : CE

Inputs

MR conductivity : 0..2.000(0) $\mu\text{S/cm}$ 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

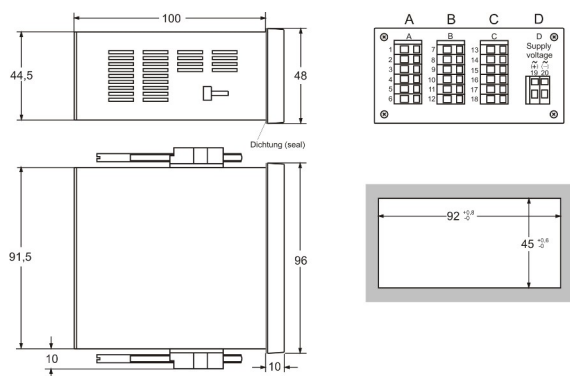
Indicating range : 2000(0) Digit with leading zero suppression
Parameter display : LED 2-digit red, 7 mm
(parameter - and output indicator)

Outputs

Relay : SPDT < 250 V AC < 250 VA < 2 A,
< 300 V DC < 50 W < 2 A
Transistor : transistor, <35 V AC/DC, max.100 mA,
short circuit protected
Analog output
Active : 0/4..20 mA burden $\leq 500 \Omega$;
0/2..10 V burden $> 500 \Omega$, isolated
automatic burden changing
(burden dependent)

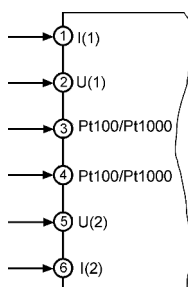
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Dimensions



Connection diagram

Terminal strip A



Ordering code

LF9648 - 1. - 2. - 3. - 4. - 5. - 6. - 7.

1. Terminal strip A		
1	input for 2- or 4-electrode-cells, temperature compensation via Pt100	
3	as 1, but temperature compensation via Pt1000	
2. Terminal strip B		
00	not installed	
2R	2 relay outputs	
2T	2 electronic outputs	
3. Terminal strip C		
00	not installed	
2R	2 relay outputs	
2T	2 electronic outputs	
AO	analog output 0/4..20 mA, 0/2..10 V DC	
2A	2 analog outputs 4..20 mA passive	
4. Terminal strip D 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 %
5. Options		
00	without option	
01	min- and max-peak hold	
14	measuring/monitoring acc. to USP<645>	
6. Unit appears on the unit field		
7. Additional text above the display (3x90 mm HxW)		