GHM Messtechnik GmbH – Location Martens
Kiebitzhörn 18 ● 22885 Barsbüttel ● Germany
Fon +49-40-670 73-0 ● Fax -288
www.ghm-messtechnik.de ● info@ghm-messtechnik.de

Conductivity Meter LF9648

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

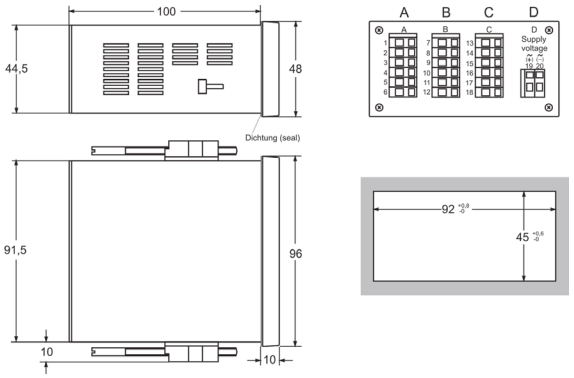
Inputs

MR conductivity	:	0..2.000(0) µS/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

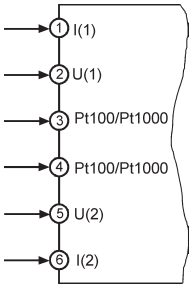
Relay	:	SPDT < 250 V AC < 250 VA < 2 A, < 300 V DC < 50 W < 2 A
Transistor	:	transistor, <35 V AC/DC, max.100 mA, short circuit protected
Analog output		
Active	:	0/4..20 mA burden ≤500 Ω; 0/2..10 V burden >500 Ω, isolated automatic burden changing (burden dependent)
Passive	:	4..20 mA, ext. burden = RA[Ω]≤ (supply - 5 V) ÷ 0.02 A ; supply voltage 5..30 V DC,
Accuracy	:	0.1 %; TK 0.01 %/K
Case	:	panel mounting DIN 96x48 mm, material PA6-GF; UL94V-0
Dimensions	:	front 96x48 mm, mounting depth 100 mm,
Weight	:	max. 390 g
Connection	:	clamp terminals, 0.08..1.5 mm², AWG28..AWG14

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)		

Connection diagram for terminal strip B-D see page Fehler: Referenz nicht gefunden