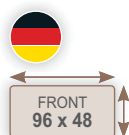


Conductivity Meter



HIGHLIGHTS:

- Input for 2- or 4-electrode cells
- Temperature compensation via Pt100
- relay or Thyristor outputs
- Analog output 0/4 ... 20 mA or 0/2 ... 10 V for the LF-value

LF 9648

Conductivity Meter

Application:

The Conductivity Meter LF 9648 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.

Specifications:

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, 5 VA with analog output

Working temperature: -10 ... +55 °C

CE-conformity: EN55022, EN60555, IEC61000-4-3/4/5/11/13

Inputs

MR conductivity: 0 ... 2.000(0) μ 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, \pm 2 digit

- Temperature compensation: 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: \pm 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 \leq 500 Ω ; 0/2 ... 10 V burden >500 Ω , isolated, automatic burden changing (burden dependent)

Passive: 4...20 mA, ext. burden = $RA[\Omega] \leq (\text{supply} - 5 \text{ V}) \div 0.02 \text{ A}$; supply voltage 5 ... 30 V DC

Accuracy 0.1 %; TK 0.01 %/K

Housing: panel mounting DIN 96 x 48 mm, material PA6-GF; UL94V-0

Dimensions: Front 96 x 48 mm, mounting depth 100 mm,

Weight: max. 390 g

Connection: clamp terminals, 0.08 ... 1.5 mm², AWG28 ... AWG14

Protection class: Front IP65, terminals IP20, BGV A3

Scope of supply: Device, manual

Accessories and spare parts:

VKLF-M12-L05-LE

Art. no. 609601

Connection cable, 5 m length

LFE 230

Art. no. 607825

2-pole measuring cell (p.r.t page 172)

LFE 430

Art. no. 607827

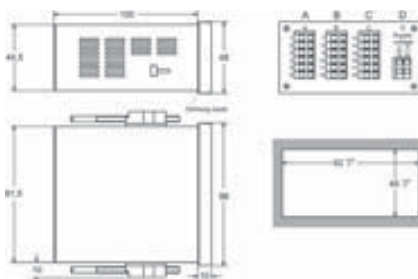
4-pole measuring cell (p.r.t page 172)

LFE 220

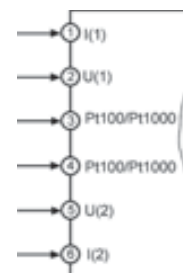
Art. no. 607829

2-pole measuring cell (p.r.t page 172)

Dimensions:



Connection:



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 \pm 10 % 50-60 Hz
 1 115 V AC \pm 10 % 50-60 Hz
 4 24 V AC \pm 10 % 50-60 Hz
 5 24 V DC \pm 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 (3 x 90 mm H x W)

further electrodes and accessories p.r.t page 172