**Conductivity measuring devices** 



# Highlights:

- · 3 conductivity measuring ranges
- · Low power consumption
- Automatic measuring range change-over
- · Min/max-value memory
- Automatic temperature compensation via integrated temperature sensor
- · Hold function
- Adjustable



## Area of application:

Dimensions (device):

Power-Off-function:

**Device functions:** 

Hold function:

Weight:

- · Fresh and sea water aquaristics
- · Fish farming / water monitoring
- · Drink water monitoring, etc.



## Area of application:

- · Checking of pure and ultra-pure water
- · Checking of boiler water
- Functional check of ion exchangers

#### **GLF 100** Universal conductivity measuring device **GLF 100 RW** Conductivity meter for ultra-pure water

| Conductivity meter for ditra-pure water |   |   |
|---|---|---|
| Specification                           | GLF 100   | GLF 100 RW  |
| Measuring ranges:                       |   | _   |
| Conductivity:                           | 0 2000 μS/cm  | 0.000 2.000 μS/cm   |
|   | 0.00 20.00 mS/cm  | 0.00 20.00 μS/cm  |
|   | 0.0 100.0 mS/cm   | 0.0 100.0 μS/cm   |
| Temperature:                            | -5.0 +100.0 °C  | -5.0 +100.0 °C  |
| TDS:                                    | 0 2000 mg/l   |   |
| Salinity:                               | 0.0 50.0 g/kg   |   |
| Resistivity:                            |   | 0.0100 0.2000 MΩ*cm   |
|   |   | 0.010 2.000 MΩ*cm   |
|   |   | 0.01 20.00 MΩ*cm  |
| •                                       | ominal temperature = 25 °C)   |   |
| Conductivity:                           | ±0.5 % of m.v. ±0,5 % FS  | typ. ±1% of m.v. ±0,5 % FS  |
| Temperature:                            | ±0.3 °C   | ±0.3 °C   |
| Tempcompensation:                       | off: deactivated  | off: deactivated  |
|   | nLF: non-linear, acc. to EN 27888   | nLF: non-linear, acc. to EN 27888<br>LIN: linear, with adjustable |
|   | <del></del>   | LIN: linear, with adjustable coefficients                         |
|   |   | NaCI: compensation for weak                                       |
|   |   | NaCl-solutions acc. to EN 60746-3                                 |
| Reference temperatures:                 | 20 and 25 °C  | 20 and 25 °C  |
| Measuring cell:                         | 2-pole measuring cell,  | 2-pole measuring cell, Ø 12 mm                                    |
|   | Ø 12 mm (graphite)  | (stainless steel: 1.4404, 1.4435)                                 |
|   | with integrated temperature sensor with integrated temperature sensor       |   |
|   | warranty for sensor element: 12 months                                      |   |
| Display:                                | approx. 11 mm high, 4½-digit LCD-display                                    |   |
| Working conditions                      |   |   |
| Device:                                 | -25 +50 °C, 0 95 % RH (non condensing)                                      |   |
| Measuring cell:                         | -5 +80 °C (for short-time: 100 °C)  |   |
| Power supply:                           | 9V-battery, type 6F22 (in scope of supply)                                  |   |
| Power consumption:                      | < 1.5 mA  |   |
| Housing:                                | impact resistant ABS, membrane keyboard, transparent panel, front side IP65 |   |

110 x 67 x 30 mm (H x W x D)

vated), if no operating has taken

by keypress the current measuring value will be "frozen"

device turns off after some time (adjustable: 1-120 min or deacti-

approx. 155 g

Min/max-value memory: the min. and max. measured value is stored

## The measuring cell

The measuring head is designed without compromise. The holes ensure the well exchange of the measuring fluid, nonetheless the sensor is protected against mechanical loads. The integrated temperature sensor has very quick response time. Compared to simpler electrode designs the measurements are much more accurate and faster.

## **GLF 100:**

Graphite used as material for the electrodes makes the applicability up to 100 mS/cm possible - a must have in seawater analytic



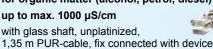
Universal applicability at highest standards is made possible by the use of stainless steel electrodes (1.4404, 1.4435).



## Option

- LTG (just with GLF 100)

for organic matter (alcohol, petrol, diesel) up to max. 1000 µS/cm





#### **Accessories**

**GKL 100** Conductivity control solution (100 ml bottles with 1413 µS/cm. (acc. to DIN EN 27888))

**GKL 101** Conductivity control solution (250 ml bottles with 84 µS/cm.)

**GKL 102** Conductivity control solution (100 ml bottles with 50 mS/cm.)



**GEH 1** Swivel-arm electrode-retainer (for up to 4 electrodes / probes )



**GWZ-01** Flow-through chamber (for measuring cell with Ø 12 mm)

for additional accessories please refer to page 42, 43