

### Conductivity meter for ultra-pure water

#### Highlights

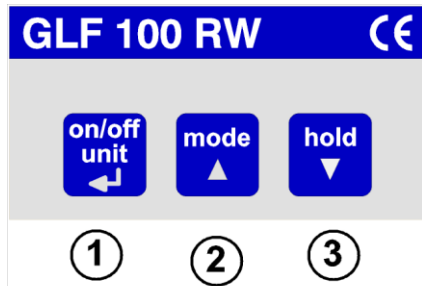
- 2 pole stainless steel electrode
- 3 measuring ranges for conductivity (up to 100.0  $\mu\text{S}/\text{cm}$ )
- High resolution: 0,001  $\mu\text{S}/\text{cm}$
- Displaying of resistivity
- Automatic / manual shift of measuring range
- Automatic temperature compensation by an integrated temperature sensor
- 4 different types of temperature compensation:
  - non-linear function for natural water according EN 27888
  - weak NaCl solutions NaCl according EN 60746-3
  - linear with adjustable coefficients
  - deactivated
- Low current consumption
- Min- / max-value memory and hold-function
- Adjustable
- Auto-power-off: if not used, the device automatically switches off after an adjustable period of time; continuous operation possible



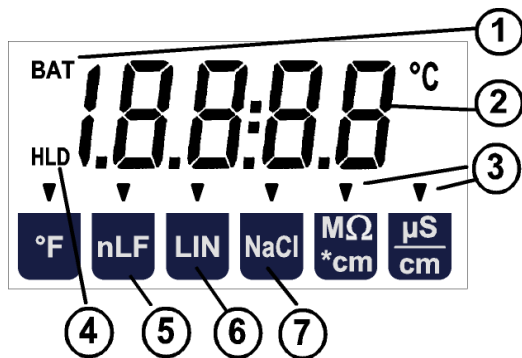
#### Range of application

- Checking of pure and ultra-pure water
  - Checking of boiler water
  - Functional check of ion exchangers
  - Checking of:
    - distilled water
    - deionised water
    - demineralised water
    - desalinated water
- etc.





- Button 1: **on/off**  
Press long: out  
Press shortly: display of temperature
- Button 2: **mode**  
Switch between actual - / min- / max-value  
Press long: delete min- and max-value
- Button 3: **hold**  
Actual value is held ('HLD' displayed)



1. BAT Battery used up
2. Measuring value Consider the displayed additional arrows and symbols
3. Unit Conductivity measurement in  $\mu\text{S}/\text{cm}$  or  $\text{M}\Omega^*\text{cm}$
4. HLD Measuring value is 'frozen' (button 3)
5. nLF None-linear temperature compensation
6. LIN Linear temperature compensation
7. NaCl Temperature compensation for weak NaCl solutions

## Specifications

Measuring ranges	conductivity	0.000 ... 2.000 $\mu\text{S}/\text{cm}$ 0.00 ... 20.00 $\mu\text{S}/\text{cm}$ 0.0 ... 100.0 $\mu\text{S}/\text{cm}$
	resistivity	0.0100 ... 0.2000 $\text{M}\Omega^*\text{cm}$ 0.010 ... 2.000 $\text{M}\Omega^*\text{cm}$ 0.01 ... 20.00 $\text{M}\Omega^*\text{cm}$
	temperature	-5.0 ... +100.0 °C 23.0 ... 212.0 °F
Accuracy	conductivity	better 1.5 % Full Scale
	temperature	$\pm 0.3$ K
temperature compensation	off: deactivated nLF: non-linear function for natural water according EN 27888 LIN: linear temperature compensation with adjustable coefficients NaCl: compensation for weak NaCl solutions NaCl according EN 60746-3 Reference temperature 20 °C and 25 °C	
Power supply	9V-battery, type 6F22 (included in delivery) current consumption <1.5 mA	

## Design conception

The GLF100 RW is equipped with high-quality measuring technology. Due to its consistent design the price/performance ratio could be improved to an all-time level. Other design features of the GLF100 RW are its robustness and reliable working. The low power consumption and the use of 9V-batteries, that are everywhere available in contrast to special batteries, assure that the device is always ready for use, when you need it.

## Operation

A main target at the development was the ease of operation. All configuration points are preset at factory that in most application the device is ready for use after it is unpacked.

## The measuring adapter

The measuring head is designed without compromise. The holes ensure the electrodes being optimally washed; nonetheless the sensor is protected against mechanical loads. The integrated temperature sensor has a very quick response time. Compared to simpler electrode designs the measurements are much more accurate and faster. Universal applicability at high standards is made possible by the use of stainless steel electrodes (1.4404, 1.4435) and Teflon insulation.

