

Water analysis Conductivity

Product information

GLF 100

All-purpose conductivity measuring device

Highlights

- Long-living 2-pole graphite measuring cell
- 3 measuring ranges for conductivity (up to 100.0 mS/cm)
- High resolution: 0.001 $\mu\text{S}/\text{cm}$
- Additional display alternatives: TDS, salinity and temperature
- Auto-range (switch-able to a fixed measuring range)
- Automatic temperature compensation (nLF according EN 27888) by an integrated temperature sensor (can be 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

- Soft and salt water aquaristics
- Fish farming / water monitoring
- Checking of drinking water
- etc.



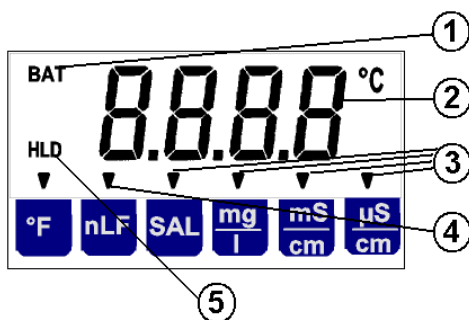
GLF 100

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- Button 1: **on/off unit**
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 is used up
2. Measuring value Consider the displayed additional arrows and symbols
3. Unit Conductivity measurement in $\mu\text{S}/\text{cm}$ or mS/cm ;
TDS measurement in mg/l or salinity
4. nLF Non-linear temperature compensation
5. HLD Measuring value is 'frozen' (button 3)

Design conception

The GLF100 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 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 very good exchange of the measuring fluid, 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. Graphite used as material for the electrodes makes the accuracy up to $100 \text{ mS}/\text{cm}$ possible – a must have in seawater analytic.



Specifications

Measuring ranges	conductivity	0.000 ... 2.000 $\mu\text{S}/\text{cm}$ 0.00 ... 20.00 mS/cm 0.0 ... 100.0 mS/cm
	TDS	0 ... 2000 mg/l
	salinity	0.0 ... 50.0 g/kg
	temperature	-5.0 ... +100.0 $^{\circ}\text{C}$
		23.0 ... 212.0 $^{\circ}\text{F}$
Accuracy	Conductivity, TDS, salinity	$\pm 0.5 \%$ of reading $\pm 0.5 \%$ full scale
	temperature	$\pm 0.3 \text{ K}$
temperature compensation		off: deactivated nLF: non-linear function for natural water according EN 27888 Reference temperature 20 $^{\circ}\text{C}$ or 25 $^{\circ}\text{C}$
Power supply		9V-battery, type 6F22 (included in delivery) current consumption $< 1.5 \text{ mA}$,

GREISINGER electronic GmbH**D - 93128 Regenstauf, Hans-Sachs-Straße 26**

phone: +49 9402 / 9383-0, fax: +49 9402 / 9383-33, eMail: info@greisinger.de

12/2008