

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:

- 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

Specification	GLF 100	GLF 100 RW
Measuring ranges:		
Conductivity:	0 ... 2000 $\mu\text{S/cm}$ 0.00 ... 20.00 mS/cm 0.0 ... 100.0 mS/cm	0.000 ... 2.000 $\mu\text{S/cm}$ 0.00 ... 20.00 $\mu\text{S/cm}$ 0.0 ... 100.0 $\mu\text{S/cm}$
Temperature:	-5.0 ... +100.0 $^{\circ}\text{C}$	-5.0 ... +100.0 $^{\circ}\text{C}$
TDS:	0 ... 2000 mg/l	--
Salinity:	0.0 ... 50.0 g/kg	--
Resistivity:	--	0.0100 ... 0.2000 $\text{M}\Omega^*\text{cm}$ 0.010 ... 2.000 $\text{M}\Omega^*\text{cm}$ 0.01 ... 20.00 $\text{M}\Omega^*\text{cm}$
Accuracy: (± 1 digit, at nominal temperature = 25 $^{\circ}\text{C}$)		
Conductivity:	$\pm 0.5\%$ of m.v. $\pm 0.5\%$ FS	typ. $\pm 1\%$ of m.v. $\pm 0.5\%$ FS
Temperature:	$\pm 0.3\text{ }^{\circ}\text{C}$	$\pm 0.3\text{ }^{\circ}\text{C}$
Temp.-compensation:	off: deactivated nLF: non-linear, acc. to EN 27888 --	off: deactivated nLF: non-linear, acc. to EN 27888 LIN: linear, with adjustable coefficients NaCl: compensation for weak NaCl-solutions acc. to EN 60746-3
Reference temperatures:	20 and 25 $^{\circ}\text{C}$	20 and 25 $^{\circ}\text{C}$
Measuring cell:	2-pole measuring cell, \varnothing 12 mm (graphite) with integrated temperature sensor with integrated temperature sensor warranty for sensor element: 12 months approx. 11 mm high, 4½-digit LCD-display	2-pole measuring cell, \varnothing 12 mm (stainless steel: 1.4404, 1.4435)
Display:		
Working conditions		
Device:	-25 ... +50 $^{\circ}\text{C}$, 0 ... 95 % RH (non condensing)	
Measuring cell:	-5 ... +80 $^{\circ}\text{C}$ (for short-time: 100 $^{\circ}\text{C}$)	
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	
Dimensions (device):	110 x 67 x 30 mm (H x W x D)	
Weight:	approx. 155 g	
Device functions:		
Hold function:	by keypress the current measuring value will be "frozen"	
Min/max-value memory:	the min. and max. measured value is stored	
Power-Off-function:	device turns off after some time (adjustable: 1-120 min or deactivated), if no operating has taken	

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

GLF 100 RW:

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 $\mu\text{S/cm}$

with glass shaft, unplatinized, 1,35 m PUR-cable, fix connected with device



Accessories

GKL 100 Conductivity control solution (100 ml bottles with 1413 $\mu\text{S/cm}$. (acc. to DIN EN 27888))

GKL 101 Conductivity control solution (250 ml bottles with 84 $\mu\text{S/cm}$.)

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 \varnothing 12 mm)

NEW



for additional accessories please refer to page 42, 43