

Conductivity measuring transducer



GLMU 200 MP incl. 2-pol meas.cell

Application area

- Easy, low-cost conductivity measurement
- Drink water monitoring
- Fish farming / water monitoring
- Fresh and sea water aquaristics

Properties

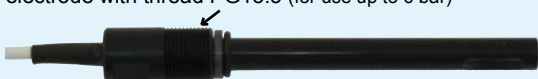
- compact conductivity measuring cell
- Output signal freely scaleable
- Adjustable cell constant
- Selectable temperature compensation mode
- On site display for the temperature
- Exchangeable unit stickers

Specification

	GLMU 200 MP	GLMU 400 MP
Measuring range: (free selectable by user)		
Conductivity:	0.0 ... 200.0 µS/cm 0 ... 2000 µS/cm 0.00 ... 20.00 mS/cm 0.0 ... 200.0 mS/cm --	0.0 ... 200.0 µS/cm 0 ... 2000 µS/cm 0.00 ... 20.00 mS/cm 0.0 ... 200.0 mS/cm 0 ... 500 mS/cm
specific resistance:	5.0 ... 100.0 kOhm*cm 0.50 ... 10.00 kOhm*cm 50 ... 1000 Ohm*cm 5.0 ... 100.0 Ohm*cm --	0.0 ... 200.0 kOhm*cm 0.00 ... 20.00 kOhm*cm 1 ... 5000 Ohm*cm 1.0 ... 500.0 Ohm*cm 1.00 ... 50.00 Ohm*cm
TDS:	0.0 ... 200.0 mg/l 0 ... 2000 mg/l -- -- --	0.0 ... 200.0 mg/l 0 ... 2000 mg/l 0.00 ... 20.00 mg/l 0.0 ... 200.0 mg/l 0 ... 500 mg/l
Salinity:	0.0 ... 70.0	0.0 ... 70.0
Temperature meas.:	-5.0 ... +140.0 °C (transducer) 0.0 ... +80.0 °C (meas. cell)	-5.0 ... +140.0 °C (transducer) 0.0 ... +80.0 °C (meas. cell)
Measuring cell:	2-pole measuring cell	4-pole measuring cell
Standard meas. cell:	conductivity measuring cell with graphite electrodes and integrated temperature sensor. The cell constant is measured and preset ex works. Measuring cell in breakage-protected plastic pole, heat resistant up to 80 °C, Ø12 mm, length of shaft 120 mm, approx. 1 m connection cable. <i>For pressureless applications use the slip-on thread adapter PG13.5. For pressures up to 6 bar order cell with fixed PG13.5 thread (optionally).</i>	

Options / upcharge

- AV010:** output signal 0-10V
AV01: output signal 0-1V
PG: electrode with thread PG13.5 (for use up to 6 bar)



KL=... longer meas. cell cable (recommended max. 5m) **each m**



GLMU 400 MP incl. 4-pol meas.cell

Application area

- Higher saline concentrations (e.g. brine measuring)
- Measurements in polluted solutions / waste water
- Control of neutralization
- Heavily polluted liquids

Properties

- high-quality conductivity measuring cell, insensitive to dirt
- Output signal freely scaleable
- Adjustable cell constant
- Selectable temperature compensation mode
- On site display for the temperature
- Exchangeable unit stickers

Accuracy: (at nominal temperature = 25°C)	Conductivity: ±0.5% of meas. value ±0.3% FS Temperature meas.: ±0.2°C ±1 digit
Meas. cell connection:	7-pole diode connector
Cell constant:	K = 0,30 ... 1,20, freely adjustable
Temperature compensation: (selectable by user)	off: no compensation Lin: linear compensation (from 0.3 ... 3.0 %/K) nLF: non-linear function of natural water according to EN27888 (DIN 38404)
Display:	approx. 10 mm high, 4-digit LC-display
Output signal:	4 - 20 mA (2-wire), standard 0 - 1 V or 0 - 10 V (3-wire), with upcharge
Electric isolation:	input electrically isolated
Auxiliary energy:	12 ... 30 V DC (for option 0-10 Volt: 18 ... 30 V DC)
Reverse voltage protection:	50 V permanent
Perm. impedance (at 4-20 mA):	RA [Ω] = (Uv [V] - 12V) / 0.02 A
Permissible load (at 0-10 Volt):	RL > 3000 Ω
Working temperature:	-25 ... +50 °C (transducer) 0 ... +80 °C (standard meas. cell)
Storage temperature:	-25 ... +70 °C
Electric connection:	elbow-type plug acc. to DIN 43650 (IP65)
Housing:	ABS (IP65) with the exception of electrode socket
Dimensions:	82 x 80 x 55 mm, without elbow-type plug and socket
Mounting:	with fixing holes for wall mounting, Mounting distance: 148 x 50 mm (W x H)

Accessories / spare parts

- LFE 202** spare 2-pol measuring cell (for GLMU 200 MP)
LFE 200 spare 4-pol measuring cell (for GLMU 400 MP)
PG 13.5 plug on thread adapter for pressureless use
GKL 100 100 ml control solution, 1413 µS/cm (pursuant DIN 27888)
GEH 1 Swivel-arm electrode retainer