Conductivity measuring transducer

GLMU 200 MP

Conductivity measuring transducer incl. 2-pol measuring cell

General:

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

Application:

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

GLMU 400 MP

Conductivity measuring transducer incl. 4-pol measuring cell

General:

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

Application:

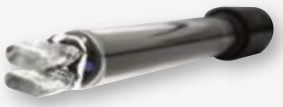
- Higher saline concentrations (e.g. brine measuring)
- Measurements in polluted solutions / waste water
- Control of neutralization
- Heavily polluted liquids

Specification:	GLMU 200 MP	GLMU 400 MP
Measuring range: (free selectable by user)		
Conductivity:	0.0 ... 200.0 µS/cm	0.0 ... 200.0 µS/cm
	0 ... 2000 µS/cm	0 ... 2000 µS/cm
	0.00 ... 20.00 mS/cm	0.00 ... 20.00 mS/cm
	0.0 ... 200.0 mS/cm	0.0 ... 200.0 mS/cm
	--	0 ... 500 mS/cm
specific resistance:	5.0 ... 100.0 kOhm*cm	0.0 ... 200.0 kOhm*cm
	0.50 ... 10.00 kOhm*cm	0.00 ... 20.00 kOhm*cm
	50 ... 1000 Ohm*cm	1 ... 5000 Ohm*cm
	5.0 ... 100.0 Ohm*cm	1.0 ... 500.0 Ohm*cm
	--	1.00 ... 50.00 Ohm*cm
TDS:	0.0 ... 200.0 mg/l	0.0 ... 200.0 mg/l
	0 ... 2000 mg/l	0 ... 500.0 mg/l
	--	0 ... 2000 mg/l
	--	0.0 ... 20.0 g/l
	--	0 ... 200 g/l
Salinity:	0.0 ... 70.0	0.0 ... 70.0
Temperature meas.:	-5.0 ... +140.0 °C (transducer)	-5.0 ... +140.0 °C (transducer)
	0.0 ... +80.0 °C (meas. cell)	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, Ø 12 mm, length of shaft 120 mm, approx. 1 m connection cable. For pressureless applications use the slip-on thread adapter PG 13.5. For pressures up to 6 bar order cell with fixed PG 13.5 thread (optionally).	
Accuracy: (at nominal temperature = 25 °C)		
Conductivity:	±0.5 % of measuring 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 (ISO 7888)	
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), upon 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):	R_A [Ω] ≤ (Uv [V] - 12 V) / 0.02 A
Permissible load (at 0-10 Volt):	R_L > 3000 Ω
Working temperature:	-25 ... +50 °C (transducer) 0 ... +80 °C (standard measuring cell)
Storage temperature:	-25 ... +70 °C
Electric connection:	elbow-type plug acc. to EN 175301-803/A (IP65)
Housing:	ABS (IP65) with the exception of electrode socket
Dimensions:	82 x 80 x 55 mm, without elbow-type plug and socket
Warranty:	12 months
Mounting:	with fixing holes for wall mounting, Mounting distance: 70 x 50 mm (W x H)

Option:

- LTG
for organic matter (alcohol, petrol, diesel)
up to max. 1000 µS/cm
with glass shaft, unplatinized,
1.35 m PUR-cable



- PG
electrode with thread PG 13.5
(for use up to 6 bar)

- AV010:
output signal 0-10 V
- AV01:
output signal 0-1 V
- KL=..:
longer measuring cell cable (recommended max. 5 m)

Accessories and 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