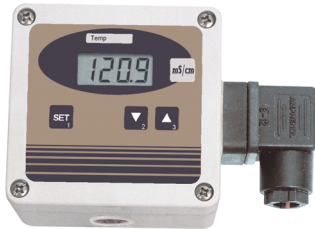


Product Information

Analysis - Conductivity

Compact Conductivity Measuring Transducer GLMU



- Local display of conductivity and temperature
- Freely scalable output scales
- Variable temperature-compensation type
- With local display and galvanic isolation
- 4 to 20 mA version with 2 wires: Power supply via current loop (optionally with 0-10V 3-wire)

Features

The GLMU is used for drinking water and surface water monitoring, fish husbandry, aquariums and measurement in contaminated solutions and waste water or monitoring of neutralisation.

The 4-pole measuring cell of the GLMU-400-MP is especially well-suited for use for higher salt concentrations based on the insensitivity to dirt.

The GLMU has a local display of conductivity and temperature. The output signal is freely scalable and the measuring range and temperature compensation type can be selected by the customer.

Versions

GLMU-200-MP	GLMU-400-MP	GLMU-400-MP-UNI
Incl. 2-pole conductivity measuring cell, compact, single measuring cell	Incl. 4-pole conductivity measuring cell, high-quality, dirt-resistant measuring cell	Universally configurable measuring transducer without measuring cell, for connection of arbitrary measuring cells

Technical data

	GLMU-200-MP	GLMU-400-MP	GLMU-200-MP-RW
Measuring ranges	(Decimal point and resolution can be selected by the customer. Specification of the min. and max. possible measuring range)		
Conductivity	In $\mu\text{S/cm}$: 0.0..200.0 0..2000 In mS/cm : 0.00..20.00 0.0..200.0	In $\mu\text{S/cm}$: 0.0 ... 200.0 0 ... 2000 In mS/cm : 0.00..20.00 0.0..200.0 0..500	In $\mu\text{S/cm}$: 0.0..200.0 0.0..20.00

Spec. resistance	In $\text{k}\Omega\cdot\text{cm}$: 5.0..100.0 0.50..10.00 In $\Omega\cdot\text{cm}$: 50..1000 5.0..100.0	In $\text{k}\Omega\cdot\text{cm}$: 0.0..200.0 0.00..20.00 In $\Omega\cdot\text{cm}$: 1..5000 1.0..500.0 1.00..50.00	In $\text{k}\Omega\cdot\text{cm}$: 0..200 0..2000
TDS	In mg/l : 0.0..200.0 0..2000	In mg/l : 0.0..200.0 0..500.0 0..2000 In g/l : 0.0..20.0 0..200	In mg/l : 0.0..200.0 0.0..20.00
Salinity	0.0..70.0 (PSU)	0.0..70.0 (PSU)	
Temperature	-25..+50 °C (device) 0.0..80.0 °C (measuring cell)		

Measuring cell : Conductivity measuring cell with 2/4-pole for various applications

Accuracy
 Conductivity : $\pm 0.5\%$ of measured value $\pm 0.3\%$ FS
 (-RW: -1% of measured value $\pm 0.3\%$ FS)

Temperature : $\pm 0.2\text{ }^\circ\text{C} \pm 1$ digit
 Measuring cell connection : 7-pole diode socket

Cell constant : $K = 0.30..1.20$ freely selectable
 (-RW: 0.03..0.12)

Temperature compensation
 off : No compensation
 Lin : Linear compensation (of 0.3..3.0 %/K)
 nLF : non-linear compensation for natural water according to EN27888 (DIN 38404)

Output signal : 4..20 mA, (2-wire)
 0..1 V or 0..10 V (3-wire)

Auxiliary energy : 12..30 V DC at 4..20 mA
 18..30 V DC at 0..10 V

Permissible resistance : $R_A[\Omega] = (U_V [V] - 12V) / 0.02 A$

Permissible load : $R_L > 3000 \Omega$

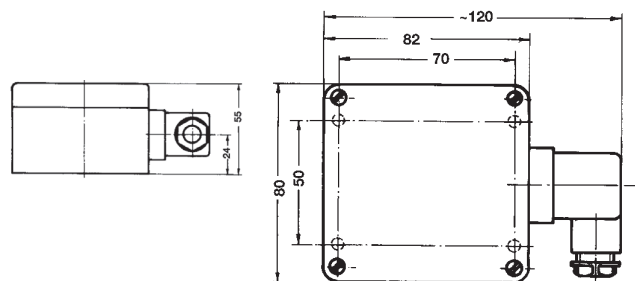
Display : 10 mm height, 4-digit display

Electrical connection : Angle connector according to EN 175301-803/A,

Housing : ABS

Ingress protection : IP65 (excluding 7-pole measuring cell connection socket)

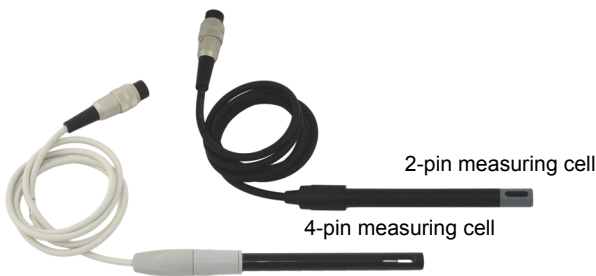
Dimension



Product Information

Analysis - Conductivity

Measuring cells



Ordering code

1. 2. 3. 4. 5.
GLMU - - MP - - - -

1. Version		
200	Incl. 2-pole measuring cell	
400	Incl. 4-pole measuring cell	
2. Measuring cell		
TR	Drinking/fresh water	•
TRP	Drinking/fresh water, screw-in measuring cell	•
LTG	Organic substances	•
RW	Purest water	•
RWP	Purest water, screw-in measuring cell	•
SW	Dirty/salt water	•
SWP	Dirty/salt water, screw measuring cell	•
3. Output signal		
A1	4..20 mA	
AV01	0..1 V	
AV010	0..10 V	
4. Cable length		
L01	1m	
L02	2m	
L03	3m	
L04	4m	
L05	5m	
L05L	5m cable for -SWP, - RWP and -TRP	
5. Options		
00	No options	
PG	Measuring cell with fixed PG13.5 thread for pressure applications (up to max. 6 bar)	

1. 2. 3.
GLMU - **400** MP - UNI - -

1. Version	
400	without measuring cell, compatible with 2 or 4-pole measuring cells
2. Measuring cell connection	
M16	M16 connection socket, 7-pole
3. Output signal	
A1	4..20 mA
AV01	0..1 V
AV010	0..10 V

Accessories / Spare parts

LFE 202 art. no. 604344

2-pole spare measuring cell (for GLMU-200-MP-TR)

LFE 202-PG art. no. 603594

2-pole spare measuring cell (for GLMU-200-MP-TR-PG)

LFE 210 art. no. 606911

2-pole spare measuring cell (for GLMU-200-MP-LTG)

LFE 220 art. no. 607829

2-pole spare measuring cell (for GLMU-200-MP-RW-RWP)

LFE 230 art. no. 607825

2-pole spare measuring cell (for GLMU-200-MP-RWP)

LFE 240 art. no. 607828

2-pole spare measuring cell (for GLMU-200-MP-RW)

LFE 400 art. no. 604635

4-pole spare measuring cell (for GLMU-400-MP-TR)

LFE 400-PG art. no. 603565

4-pole spare measuring cell (for GLMU-400-MP-SW-PG)

LFE 430-PG art. no. 607827

4-pole spare measuring cell (for GLMU-400-MP-SWP)

PG 13.5 art. no. 603205

Plug-in thread adapter for pressureless insert, for electrode Ø12 mm for connection without adapter

GWA1Z art. no. 602914

Thread adapter PG 13.5 to G1", plastic

GKL 100 art. no. 601396

Conductivity control solution (100 ml bottle with 1413 µS / cm, in accordance with DIN EN 27888)

Surface water / drinking water applications, among others

GKL 101 art. no. 601398

Conductivity control solution (250 ml bottle with 84 µS / cm)

Purest water, osmosis system applications, among others

GKL 102 art. no. 601400

Conductivity control solution (100 ml bottle with 50 mS / cm)
Salt water aquarium applications, among others