

Conductivity measuring transducer



HIGHLIGHTS:

- Compact measuring cells
- Freely scalable
- Adjustable cell constant
- Local display
- Integrated temperature compensation
- Measuring cell included, pre-adjusted

Laboratory measuring cells
best value
Standard cable length: 1 m

Optional PG (with PG 13.5 thread)
up to 6 bar (@ 22 °C)
Standard cable length: 1 m

Professional, field installation M12,
G 1/2 A fitting, max. 16 bar (@ 22 °C)
Standard cable length: 5 m

GLMU 200 MP-TR

Conductivity measuring transducer, incl. 2-pole measuring cell

General:

2-pole measuring cells, suitable for use in clean / potable / fresh water
Recommended usage range: up to 2000 µS/cm
4 Measuring ranges: 0.1 µS/cm ... 200.0 mS/cm



GLMU 200 MP-TR
Art. no. 607814

Ø 12 mm 2-pole measuring cell LFE 202
Graphite, C=1.0; -5 ... +80 °C



PG 13.5 THREAD

GLMU 200 MP-TR-PG
Art. no. 607815

Ø 12 mm 2-pole measuring cell LFE 202-PG; Graphite, C=1.0; -5 ... +80 °C



PROFESSIONAL

GLMU 200 MP-TRP*)
Art. no. 607816

Ø 16 mm 2-pole measuring cell LFE 230
Graphite, C=0.9; 0 ... +60 °C (higher available on request)

GLMU 400 MP-SW

Conductivity measuring transducer, incl. 4-pole measuring cell

General:

4-pole measuring cells, especially well-suited for use above 2000 µS/cm, applications susceptible to contamination, sea water, etc.
5 Measuring ranges: 0.1 µS/cm ... 500 mS/cm



GLMU 400 MP-SW
Art. no. 607819

Ø 12 mm 4-pole measuring cell LFE 400
Graphite, C=0.55; -5 ... +80 °C



PG 13.5 THREAD

GLMU 400 MP-SW-PG
Art. no. 607820

Ø 12 mm 4-pole measuring cell LFE 400-PG
Graphite, C=0.55; -5 ... +80 °C



PROFESSIONAL

GLMU 400 MP-SWP*)
Art. no. 607821

Ø 16 mm 4-pole measuring cell LFE 430
Graphite, C=0.4; 0 ... +60 °C (higher available on request)

GLMU 200 MP-RW

Clean/cleanest water measuring system

General:

2-pole measuring cells, recommended usage range up to 200 µS/cm
Usage range up to 200 µS/cm
3 Measuring ranges: 0.01 ... 200.0 µS/cm



GLMU 200 MP-RW
Art. no. 607817

Ø 12 mm 2-pole measuring cell LFE 240
stainless steel/ PEEK; C=0.1, -5 ... +80 °C



PROFESSIONAL

GLMU 200 MP-RWP*)
Art. no. 607818

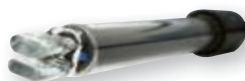
Ø 12 mm 2-pole measuring cell LFE 220
stainless steel/ PEEK; C=0.1; -10 ... +100 °C

GLMU 200 MP-LTG

Measuring transducer with 2-pin electrode

General:

2-pole measuring cells, suitable for use in organic substances (alcohol, benzine, diesel)
Usage range up to 1000 µS/cm
2 Measuring ranges: 0.1 µS/cm ... 2000 µS/cm



GLMU 200 MP-LTG
Art. no. 607641

Ø 12 mm 2-pole measuring cell LFE 210
Platinum glass; C=1.0

*) Attention:

A special cable is supplied with the professional version.

The measuring cell can be unscrewed locally without having to change the wiring!

Handheld instrument
Display / Controller
Logger- / Bus systems
Transmitter
Temperature probe
Simulators
Alarm / Protection, Level

Conductivity measuring transducer

General:			
Cheap conductivity measurement in drinking water, sea water, process water and wastewater, operational.			
Specifications:	GLMU 400 MP	GLMU 200 MP	GLMU 200 MP-RW
Measuring ranges: (customer-selectable)			
Conductivity:	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	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 0.00 ... 20.00 µS/cm
Specific resistance:	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	5.0 ... 100.0 kOhm*cm 0.50 ... 10.00 kOhm*cm 50 ... 1000 Ohm*cm 5.0 ... 100.0 Ohm*cm	0 ... 200 kOhm*cm 0 ... 2000 kOhm*cm
TDS:	0.0 ... 200.0 mg/l 0 ... 500.0 mg/l 0 ... 2000 mg/l 0.0 ... 20.0 g/l 0 ... 200 g/l	0.0 ... 200.0 mg/l 0 ... 2000 mg/l	0.0 ... 200.0 mg/l 0.00 ... 20.00 mg/l
Salinity:	0.0 ... 70.0 (PSU)	0.0 ... 70.0 (PSU)	
Temperature measurement:	5.0 ... +140.0 °C (device) permissible temperature of the measuring cell note!		
Measuring cell:	4-pole measuring cell	2-pole measuring cell	2-pole measuring cell
Standard measuring cell:	conductivity measuring cell with integrated temperature sensor. Cell constant determined from the factory and preset.		
Accuracy: (at nominal temperature = 25 °C)			
Conductivity:	0.5% of reading ± 0.3% FS (-RW: ±1 % v. MW ±0.3 % FS)		
Temperature measurement:	±0.2 °C ±1 digit		
Cells connection:	7-pin DIN socket		
Cell constant:	K = 0.30 ... 1.20, adjustable (-RW: 0.03 ... 0.12)		
Temperature compensation: (customer-selectable)	off: no compensation Lin: linear compensation (of 0.3 ... 3.0 % / K) nLF: non-linear function of natural water according to EN27888 (ISO 7888) in salinity: automatically after IOT		
Display:	approx. 10 mm high, 4-digit LCD display		
Output signal:	4 ... 20 mA (2-wire), standard 0 ... 1 V or 0 ... 10 V (3-wire), surcharge		
Galvanic isolation:	input electrically isolated		
Power supply:	12 ... 30 V DC (for option 0 ... 10 V: 18 ... 30 V DC)		
Reverse polarity:	50 V continuous		
perm. burden (4-20 mA):	$R_A [\Omega] \leq (U_V [V] - 12 V) / 0.02 A$		
perm. load (0-10 volts):	$R_L > 3000 \Omega$		
Working temperature:	-25 ... +50 °C (transmitter), 0 ... +80 °C (measuring cell)		
Storage temperature:	-25 ... +70 °C		
Electrical connection:	Angle connector according to EN 175301-803 / A (IP65)		
Housing:	ABS (IP65) except electrode connection sockets		
Dimensions:	82 x 80 x 55 mm, without angle plug and socket		
Warranty:	12 months		
Mounting:	with fixing holes for wall mounting Mounting distance: 70 x 50 mm (W x H)		
Scope of supply:	Device, measuring cell, manual		
Options:			
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:

GLMU 400 MP-UNI-AV010

Art. no. 608006

GLMU 400 MP-UNI-AV01

Art. no. 608053

GLMU 400 MP-UNI-AV420

Art. no. 608052

Transmitter without measuring cell, suitable for 2- and 4-pole measuring cells to create your own conductivity measuring system with special measuring cells. Different standard systems:

- Area selection of cell constant 0.01; 0.1; 1.0; 10, for example, 1.0 corresponds to 0.300 ... 1.200, 0.1 corresponds to 0.0300 ... 0.1200
- Depending on this measuring range selection without limitations (5 regions)
- selection of temperature input Pt1000 or NTC10 k



Note: The measuring accuracy of the overall system strongly from the measuring cell used and the dependent on the area of application

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 230

Art. no. 607825

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

LFE 400

Art. no. 604635

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

LFE 400-PG

Art. no. 603565

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

LFE 430

Art. no. 607827

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

LFE 240

Art. no. 607828

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

LFE 220

Art. no. 607829

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

LFE 210

Art. no. 606991

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

PG 13.5

Art. no. 603205

Plug on thread adapter for pressureless use, for electrodes with 12 mm shank diameter

**GWA12**

Art. no. 602914

Thread adapter PG13.5 to G1", plastics

**GKL 100**

Art. no. 601396

Conductivity control solution

100 ml bottle with 1413 µS/cm, according to DIN EN 27888

GKL 101

Art. no. 601398

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

GKL 102

Art. no. 601400

Conductivity control solution (100 ml bottle containing 50 mS/cm)

VKMU-M12

Art. no. 609306

Connection cable, 5 m long