

## 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**  
Product-ID: 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**  
Product-ID: 607815

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



**GLMU 200 MP-TRP\*)**  
Product-ID: 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**  
Product-ID: 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**  
Product-ID: 607820

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



**GLMU 400 MP-SWP\*)**  
Product-ID: 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**  
Product-ID: 607817

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



**GLMU 200 MP-RWP\*)**  
Product-ID: 607818

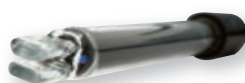
Ø 12 mm 2-pole measuring cell LFE 220  
stainless steel/ PEEK; C=0.1; -10 ... +100 °C

### GLMU 200 MP-LTG

Measuring transducer with 2-pin  
electrode

#### General:

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



**GLMU 200 MP-LTG**  
Product-ID: 607641

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

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## CONDUCTIVITY MEASURING TRANSDUCER

## General:

Cheap conductivity measurement in drinking water, sea water, process water and waste-water, operational.

## Specifications: GLMU 400 MP GLMU 200 MP GLMU 200 MP-RW

## Measuring ranges: (customer-selectable)

|                                                        |                                                                                                                                                                                             |                                                                                                        |                                            |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------|
| <b>Conductivity:</b>                                   | 0.0 ... 200.0 µS/cm<br>0 ... 2000 µS/cm<br>0.00 ... 20.00 mS/cm<br>0.0 ... 200.0 mS/cm<br>0 ... 500 mS/cm                                                                                   | 0.0 ... 200.0 µS/cm<br>0 ... 2000 µS/cm<br>0.00 ... 20.00 mS/cm<br>0.0 ... 200.0 mS/cm                 | 0.0 ... 200.0 µS/cm<br>0.00 ...20.00 µS/cm |
| <b>specific Resistance:</b>                            | 0.0 ... 200.0<br>kOhm*cm<br>0.00 ... 20.00<br>kOhm*cm<br>1 ... 5000 Ohm*cm<br>1.0 ... 500.0<br>Ohm*cm<br>1.00 ... 50.00<br>Ohm*cm                                                           | 5.0 ... 100.0<br>kOhm*cm<br>0.50 ... 10.00<br>kOhm*cm<br>50 ... 1000 Ohm*cm<br>5.0 ... 100.0<br>Ohm*cm | 0 ... 200 kOhm*cm<br>0 ... 2000 kOhm*cm    |
| <b>TDS:</b>                                            | 0.0 ... 200.0 mg/l<br>0 ... 500.0 mg/l<br>0 ... 2000 mg/l<br>0.0 ... 20.0 g/l<br>0 ... 200 g/l                                                                                              | 0.0 ... 200.0 mg/l<br>0 ... 2000 mg/l                                                                  | 0.0 ... 200.0 mg/l<br>0.00 ... 20.00 mg/l  |
| <b>Salinity:</b>                                       | 0.0 ... 70.0 (PSU)                                                                                                                                                                          | 0.0 ... 70.0 (PSU)                                                                                     |                                            |
| <b>Temperature measurement:</b>                        | 5.0 ... +140.0 ° C (device)<br>permissible temperature of the measuring cell note!                                                                                                          |                                                                                                        |                                            |
| <b>Measuring cell:</b>                                 | 4-pole. measuring cell                                                                                                                                                                      | 2-pole. measuring cell                                                                                 | 2-pole.measuring cell                      |
| <b>Standard measuring cell:</b>                        | conductivity measuring cell with integrated temperature sensor. Cell constant determined from the factory and preset.                                                                       |                                                                                                        |                                            |
| <b>Accuracy: (at nominal temperature = 25 °C)</b>      |                                                                                                                                                                                             |                                                                                                        |                                            |
| <b>Conductivity:</b>                                   | 0.5% of reading ± 0.3% FS (-RW: ±1 % v. MW ±0.3 % FS)                                                                                                                                       |                                                                                                        |                                            |
| <b>Temperature measurement:</b>                        | ±0.2 °C ±1 Digit                                                                                                                                                                            |                                                                                                        |                                            |
| <b>Cells Connection:</b>                               | 7-pin DIN socket                                                                                                                                                                            |                                                                                                        |                                            |
| <b>Cell constant:</b>                                  | K = 0.30 ... 1.20, adjustable (-RW: 0.03 ... 0.12)                                                                                                                                          |                                                                                                        |                                            |
| <b>Temperature compensation: (customer-selectable)</b> | off: no compensation<br>Lin: linear compensation (of 0.3 ... 3.0 % / K)<br>nLF: non-linear function of natural water according toEN27888 (ISO 7888)<br>in salinity: automatically after IOT |                                                                                                        |                                            |
| <b>Display:</b>                                        | approx. 10 mm high, 4-digit LCD display                                                                                                                                                     |                                                                                                        |                                            |
| <b>Output signal:</b>                                  | 4 - 20 mA (2-wire), standard<br>0 - 1 V or 0 - 10 V (3-wire), surcharge                                                                                                                     |                                                                                                        |                                            |
| <b>Galvanic isolation:</b>                             | input electrically isolated                                                                                                                                                                 |                                                                                                        |                                            |
| <b>Power supply:</b>                                   | 12 ... 30 V DC (for option 0-10 Volt: 18 ... 30 V DC)                                                                                                                                       |                                                                                                        |                                            |
| <b>Reverse polarity:</b>                               | 50 V continuous                                                                                                                                                                             |                                                                                                        |                                            |
| <b>perm. burden (4-20 mA):</b>                         | $R_A [Ω] ≤ (U_v [V] - 12 V) / 0.02 A$                                                                                                                                                       |                                                                                                        |                                            |
| <b>perm. load (0-10 volts):</b>                        | $R_L > 3000 Ω$                                                                                                                                                                              |                                                                                                        |                                            |
| <b>Working temperature:</b>                            | -25 ... +50 °C (transmitter),<br>0 ... +80 °C (measuring cell)                                                                                                                              |                                                                                                        |                                            |
| <b>Storage temperature:</b>                            | -25 ... +70 °C                                                                                                                                                                              |                                                                                                        |                                            |
| <b>Electrical connection:</b>                          | Angle connector according to EN 175301-803 / A (IP65)                                                                                                                                       |                                                                                                        |                                            |
| <b>Housing:</b>                                        | ABS (IP65) except electrode connection sockets                                                                                                                                              |                                                                                                        |                                            |
| <b>Dimensions:</b>                                     | 82 x 80 x 55 mm, without angle plug and socket                                                                                                                                              |                                                                                                        |                                            |
| <b>Warranty:</b>                                       | 12 months                                                                                                                                                                                   |                                                                                                        |                                            |
| <b>Mounting:</b>                                       | with fixing holes for wall mounting<br>Mounting distance: 70 x 50 mm (W x H)                                                                                                                |                                                                                                        |                                            |
| <b>Scope of supply:</b>                                | 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

Product-ID: 608006

## GLMU 400 MP-UNI-AV01

Product-ID: 608053

## GLMU 400 MP-UNI-AV420

Product-ID: 608052

Transmitter without measuring cell, suitable for 2- and 4-pol. 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

Product-ID: 604344

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

## LFE-202-PG

Product-ID: 603594

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

## LFE-230

Product-ID: 607825

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

## LFE-400

Product-ID: 604635

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

## LFE-400-PG

Product-ID: 603565

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

## LFE-430

Product-ID: 607827

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

## LFE-240

Product-ID: 607828

2-pol. Replacement measuring cell (for GLMU 200 MP-RW)

## LFE-220

Product-ID: 607829

2-pol. Replacement measuring cell (for GLMU 200 MP-RW-Pro)

## LFE-210

Product-ID: 606991

2-pol. Replacement measuring cell (for GLMU 200 MP-LTG)

## PG 13.5

Product-ID: 603205

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



## GWA12

Product-ID: 602914

Thread adapter PG13.5 to G1", plastics



## GKL 100

Product-ID: 601396

Conductivity control solution

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

## GKL 101

Product-ID: 601398

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

## GKL 102

Product-ID: 601400

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