

## Product Information

# Redox Measuring Transducer GRMU



- Galvanic isolation
- Optional local display
- 4 to 20 mA version with 2 wires: Power supply via current loop (optionally with 0-10V 3-wire)

## Features

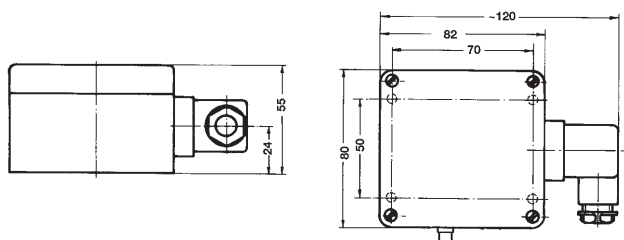
The GRMU is used in control, measurement and monitoring tasks, e.g. in environmental and medical technology.

Any standard Redox electrode with a BNC or Cinch socket can be used for the GRMU.

## Technical data

|                             |                                                                            |
|-----------------------------|----------------------------------------------------------------------------|
| Measuring range             | : $\pm 2000$ mV                                                            |
| Accuracy                    | : 0.2 % FS                                                                 |
| Output signal               | : 4..20 mA, (2-wire)<br>0..10 V (3-wire)                                   |
| Galvanic Isolation          | : Galvanically isolated input                                              |
| Auxiliary energy            | : 12..30 V DC at 4..20 mA<br>18..30 V DC at 0..10 V                        |
| Permissible resistance      | : $R_A[\Omega] = (U_V[V] - 12V) / 0.02 A$                                  |
| Permissible load            | : $R_L > 3000 \Omega$                                                      |
| Electrode                   | : all stand. Redox electrodes are suitable<br>no Redox electrodes included |
| Input resistance            | : $10^{12} \Omega$                                                         |
| Electrode connection socket | : BNC / Cinch                                                              |
| Display                     | : 10 mm height, 4-digit display                                            |
| Electrical connection       | : Angle connector EN 175301-803 / A                                        |
| Housing                     | : ABS                                                                      |
| Working temperature         | : 0 – 50 °C                                                                |
| Ingress protection          | : IP65 (excluding electrode connection sockets)                            |

## Dimension



## Ordering code

GRMU2000MP - 1. - 2. - 3.

|                                       |                                                           |
|---------------------------------------|-----------------------------------------------------------|
| <b>1. Electrode connection socket</b> |                                                           |
| BNC                                   | BNC socket                                                |
| CINCH                                 | Cinch jack                                                |
| <b>2. Output signal</b>               |                                                           |
| A1                                    | 4..20 mA                                                  |
| V2                                    | 0..10 V                                                   |
| <b>3. Option</b>                      |                                                           |
| 00                                    | No options                                                |
| VO                                    | Local display                                             |
| MB                                    | Limited measuring range (please specify range separately) |

Order example:  
GRMU2000MP-CINCH-A1-VO

## Accessories

### GR 105-BNC art. no. 607798

Redox electrode with BNC plug  
Measuring range  $\pm 2000$  mV  
Temperature range 0 ... 80 °C  
Medium conductivity > 25  $\mu S/cm$ , not pressure-resistant, 1m cable

### GR 175-BNC

Redox electrode with BNC plug, thread PG 13.5  
Measuring range  $\pm 2000$  mV, temperature range 0 ... 80 °C  
Medium conductivity > 25  $\mu S/cm$ , pressure-resistant to 6 bar, 1m cable  
(also available in S7 version)

### GWA1Z art. no. 602914

Thread adapter from PG13.5 to G1", plastic

### PG 13.5 art. no. 603205

Plug-in thread adapter for pressureless insert, for electrode  $\varnothing 12$  mm for connection without adapter

### GRP 100 art. no. 601424

Redox testing solution (220 mV at 25°C), 100ml