

pH-measuring transducer with on site display and electrically isolation



GPHU 014 MP / BNC without electrode

GPHU 014 MP / Cinch without electr.

Properties

- automatically and manually temperatur compensation
- external Pt1000-temperature probe connectable
- sensor input electrically isolated
- 2-point calibration

Specification

Measuring range:	0,00 to 14,00 pH
Accuracy:	0,02 pH ± 1 digit (at nominal temperature = 25°C)
Output signal:	4 - 20 mA (2-wire), standard 0 - 10 V (3-wire), optional
Electric isolation:	input electrically isolated
Auxiliary energy:	12 ... 30 V DC (for option 0-10V: 18 ... 30 V DC)
Perm. impedance (at 4-20mA):	$RA [\Omega] = (Uv [V] - 12V) / 0,02 A$
Permissible load (at 0-10Volt):	$RL > 3000 \Omega$
Electrode:	any standard pH electrode is suitable. (ph electrode not included in scope of supply)
Input resistance:	10^{12} Ohm
Electrode socket:	BNC-socket or Cinch-socket
Temperature compensation:	-30 ... 150°C, manually via 3 keys or automatically via external Pt1000 sensor.
Adjustment:	via 3 keys and integrated LCD
Temp. sensor socket:	2x banana socket $\varnothing 4\text{mm}$, for Pt1000 probe.
Display:	approx. 10 mm high, 4-digit LCD-display
Working temperature:	0 ... +50 °C (electronic)
Storage temperature:	-20 ... +70 °C
Electric connection:	elbow-type plug acc. to EN 175301-803/A (IP65)
Housing:	ABS
IP rating:	IP65, with the exception of electrode and temp. connection sockets. (cpl. IP65 upon request)
Dimensions:	82 x 80 x 55 mm (H x W x D)
Mounting:	with fixing holes for wall mounting
Mounting distance:	70 x 50 mm (W x H)
Fixing screws:	max. shaft- \varnothing

Options / upcharge

AV010:	output signal 0-10 V
MB...:	limited measuring range (please state the desired range) (i.e.: 2,00 ... 10,00 pH)

Ordering example

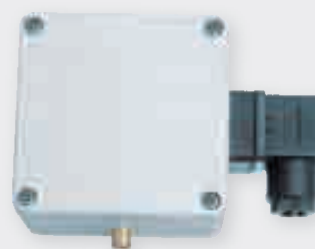
GPHU 014 MP / BNC, AV010:
pH-transmitter with BNC electrode socket and 0-10V output signal

Accessories / spare parts

GTF 2000 WD -B	water proof Pt1000-temperature probe, with 2 banana plugs $\varnothing 4\text{mm}$
for additional Pt1000-temperature probes	p.r.t. page 124, 132-133
GE 100	standard electrode, cinch-plug
GE 117	pH electrode with integrated Pt1000-sensor 1 x BNC-plug and 1 x banana plug $\varnothing 4\text{mm}$, thread PG13,5, pressure resistant up to 6bar
PG 13,5	plug on thread adapter for pressureless use
GAK 1400	working and calibration set (p.r.t. page 37)

for additional electrodes and accessories p.r.t. page 37, 124, 132-133

Redox-measuring transducer with electrically isolation



GRMU 2000 MP without electrode

Specification

Measuring range:	$\pm 2000 \text{ mV}$ or special limited measuring ranges acc. to customer specification!
Accuracy:	0,2 % FS (at nominal temperature = 25°C)
Output signal:	4 - 20 mA (2-wire), standard 0 - 10 V (3-wire), optional
Electric isolation:	input electrically isolated
Auxiliary energy:	12 ... 30 V DC (for option 0-10V: 18 ... 30 V DC)
Perm. impedance (at 4-20mA):	$RA [\Omega] = (Uv [V] - 12V) / 0,02 A$
Permissible load (at 0-10Volt):	$RL > 3000 \Omega$
Electrode:	redox electrode GE105 (electrode not included in scope of supply!)
Input resistance:	10^{12} Ohm
Electrode socket:	Cinch-socket (standard) BNC-socket with upcharge
Option: on site display	approx. 10 mm high, 4-digit LCD-display
Working temperature:	0 ... +50 °C (electronic)
Storage temperature:	-20 ... +70 °C
Electric connection:	elbow-type plug acc. to EN 175301-803/A (IP65)
Housing:	ABS (IP65) with the exception of electrode connection sockets. (cpl. IP65 upon request)
Dimensions:	82 x 80 x 55 mm (H x W x D)
Mounting:	with fixing holes for wall mounting (accessible after removal of cover) Mounting distance: 70 x 50 mm (W x H) Fixing screws: max. schaft- $\varnothing 4 \text{ mm}$

Options / upcharge

VO:	on site display
AV010:	output signal 0-10V
BNC:	electrode socket: BNC
MB...:	limited measuring range (please state the desired range)

Ordering example

GRMU 2000 MP / BNC, VO:
GRMU2000MP with BNC electrode socket and on site display

Accessories / spare parts

GE 105	redox electrode with cinch-plug and testing solution
PG 13,5	plug on thread adapter for pressureless use, with external thread PG 13.5 (suitable for any electrode)

For additional electrodes and accessories p.r.t. page 37

Dimensioned sketch GPHU / GRMU

