

# pH Transmitter GPHU



- With on-site display and electric isolation
- Automatic and manual temperature compensation
- 2-point calibration

## Characteristics

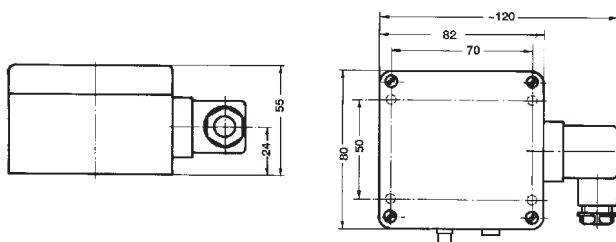
The GPHU is used for regulating, measuring and monitoring tasks e.g. in environmental and medical technology.

Every standard pH electrode can be used together with the GPHU, because the device has both, a BNC and a Cinch socket. Additionally it provides two banana sockets for a Pt1000 probe for temperature compensation. The values for temperature can also be entered manually via buttons.

## Technical data

Measuring range	: 0.00..14.00 pH
Accuracy	: 0.02 pH $\pm$ 1 digit (at nominal temperature 25 °C)
Output signal	: 4..20 mA (2-wire) 0..10 V (3-wire)
Electric isolation	: input electrically isolated
Power supply	: 12..30 V DC for 4..20 mA 18..30 V DC for 0..10 V
Permissible burden	: $R_A[\Omega] = (U_V[V] - 12V) / 0.02 A$
Permissible load	: $R_L > 3000 \Omega$
Electrode	: any standard pH electrode is suitable (electrode not included)
Input resistance	: $10^{12} \Omega$
Electrode socket	: BNC / Cinch
Temp. compensation	: -30..+150 °C, manually selectable via buttons or automatically via external Pt1000 probe
Temp.connection socket:	2x banana socket $\varnothing$ 4 mm, for Pt1000 probe
Display	: 10 mm high, 4-digit LCD display
Electric connection	: elbow-type plug (EN 175301-803/A)
Housing	: ABS
Working temperature	: 0..50 °C
Protection class	: IP65 (except electrode and temperature socket)

## Dimensions



## Ordering code

GPHU14MP - 1. - 2. - 3.

<b>1. Electrode socket</b>	
BNC	BNC socket
CINCH	Cinch socket
<b>2. Output signal</b>	
A1	4..20 mA
V2	0..10 V
<b>3. Option</b>	
00	without option
MB	limited measuring range (please state the de- sired range, e.g.: 2.00..10.00 pH)

Ordering example:  
GPHU-14MP-BNC-A1-00

## Accessories

### GTF 2000 WD-B

Water-proof Pt1000 temperature probe with  
2 banana plugs  $\varnothing$  4 mm, measuring range: -20..+105 °C

### GE 100

Standard electrode, Cinch plug  
measuring range: 0..14 pH  
temperature range: 0..80 °C;  
> 200  $\mu$ S/cm, not pressure resistant, 1 m cable

### GE 100 BNC

Standard electrode, BNC plug  
(specifications: p.r.t. GE 100)

### GE 117

pH electrode with integrated Pt1000 sensor  
1x BNC plug and 1x banana plug  $\varnothing$  4 mm  
and thread PG 13.5 pressure resistant up to 6 bar

### PG 13.5

Plug-on thread adapter for pressureless use  
with external thread PG 13.5 (can be attached to any electrode)

further accessories upon request