

Product Information

**pH Head-Transmitter
 pH40**



- **Measuring range -1..+15 pH (1500..+ 1500 mV Redox, optional)**
- **Error free measurement up to 100 m**
- **Transmitter version for 4..20 mA output signal and separate Pt100 / Pt1000 connection**

Characteristics

The head transmitter is designed for direct mounting on the pH- or redox (ORP) electrodes with input lock nut connector B. The output signal is located at output connector A. The electric connection is realized with a standard 8-pin round plug connector. Depending on the version, the signal from the sensor is either available as low impedance, amplified signal or 4..20 mA standard signal.

For combination electrodes with VarioPin plug, the Pt100 / PT1000 signal is available on the pH40 round plug connector 1:1. Temperature sensor must be processed ungrounded.

Technical data

Power supply

Supply voltage
 Type 0 : 5..30 V DC output 0
 Type 2 : 10..30 V DC output 2
 Operating temperature : -10..+60 °C

Input pH/ORP

Measuring range : -1..+15 pH / ± 1500 mV
 Input resistance : >10¹² Ω

Output

Type 0 : 1:1 transfer of the pH-signal with low output impedance, error free measurement up to 100 m
 Type 2 : 4..20 mA, 2-wire technology in the range -1..+15 pH depending at 25 °C, zero-point pH 7.0, slope 59.2 mV/pH, not compensated

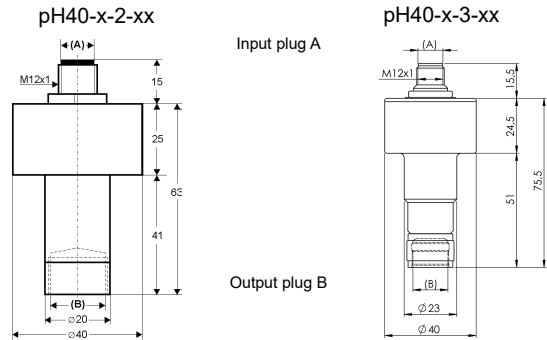
Accuracy

Type 0 : 0.01 %
 Type 2 : 0.2 %

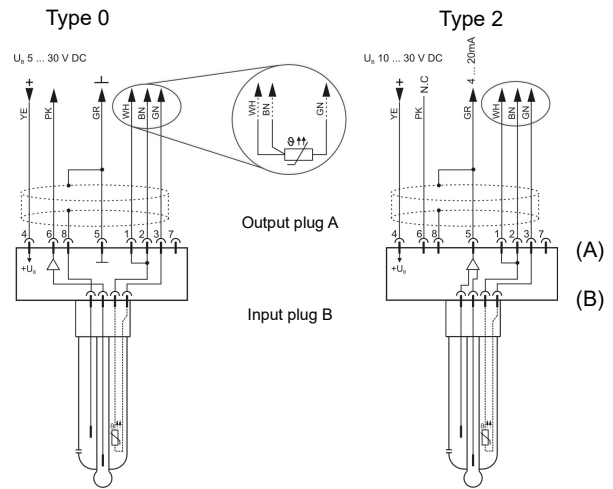
Case

Material : PVC-U
 Weight : approx. 100 g
 Input Plug B : S7 / S8 or VarioPin (VP)
 Electrical connection : 8 pole round socket, M12x1
 Material : brass plated
 Protection class : IP65

Dimensions



Connection diagram



pH40 connected to combination electrode at VP connection and SKM8E connection cable.

Ordering code



1. Output plug A	
0	-1..+15 pH or ±1500 mV Redox, signal transfer 1:1
2	4..20 mA = -1..+15 pH
2. Input plug B	
2	for electrodes with S7/S8 connection
3	for electrodes with VarioPin (VP) connection
3. Options	
00	without option
11	Compareable to output version 2, for Redox (ORP) Electrodes
Accessories connection cable with 8 pole cable socket brass plated and pigtail, PU-cable	
SKM8E-02	2 m IP67
SKM8E-05	5 m IP67
SKM8E-10	10 m IP67
SKM8E-25	25 m IP67
	other length on request
ACI113-00	8 pole cable socket for self assembling