

pH measuring unit with temperature sensor Pt100 / Pt1000 and Measuring preamplifier for screwing into the TA40 fitting.



For e.g.:

1300.0301 SMART 96-2 pH

1300.2301 SMART WG-2 pH

0021.0410 pH-ISO measuring transducer

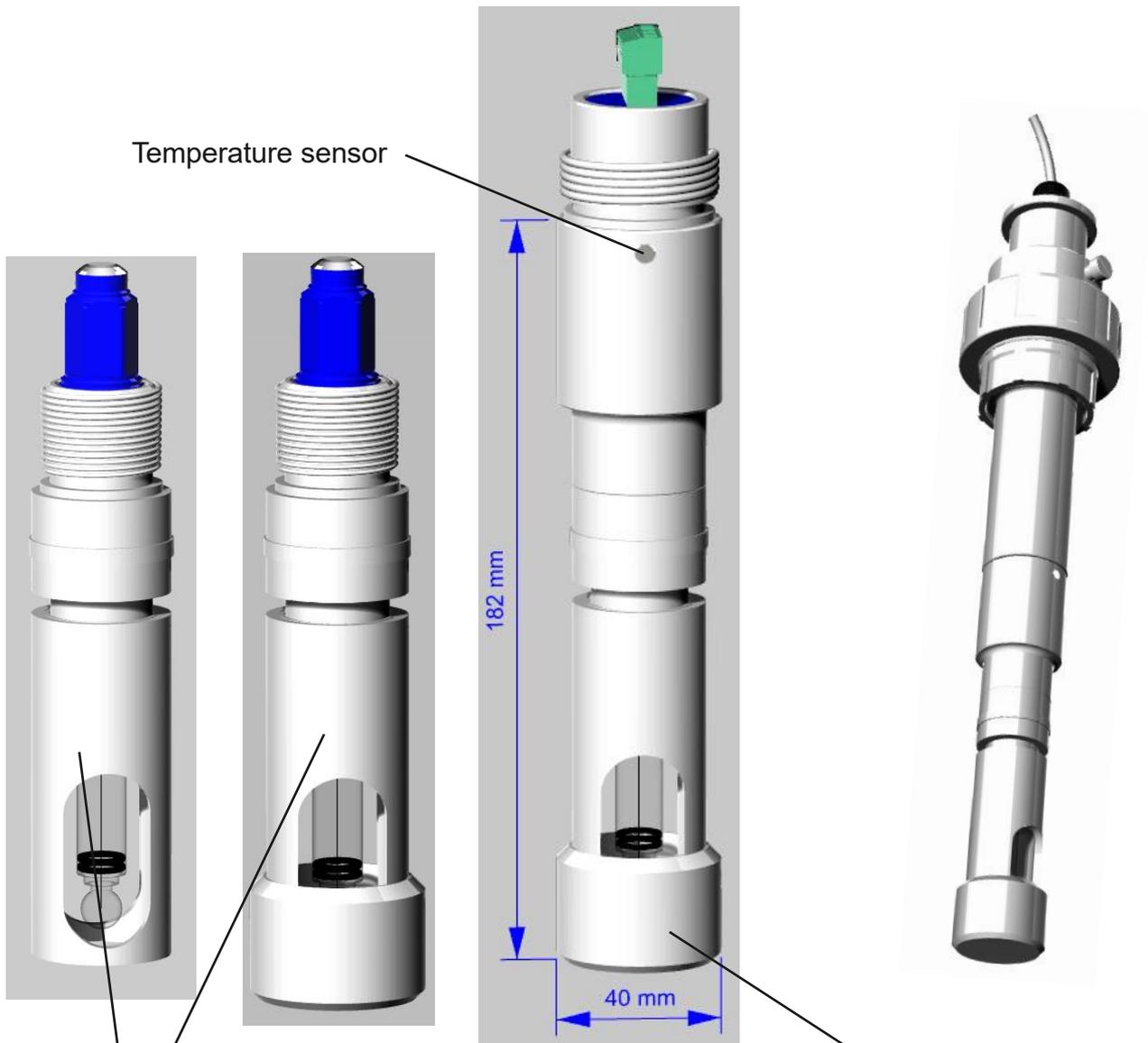
The pH measuring preamplifier has galvanic isolation from the supply voltage.

Material PP / Titanium Grade 2	max. 70°C ... 80°C
Seals O-ring	EPDM
Pipe diameter	40mm



pH measuring unit 0022.50...

The 0006.3010 wet cap and the 0020.0112 pH electrode must be ordered separately.

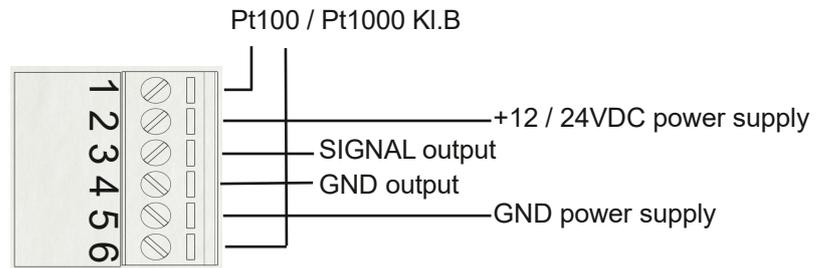


The electrode protection tube is unscrewed for calibration. The temperature sensor is located approx. 16cm above the pH measurement, which must be taken into account.

Wet retaining cap, can be removed for cleaning.

Integrated pH measurement preamplifier

converts the high-impedance signal of the pH electrode into a low-impedance signal.



The 12VDC power supply is provided by the SMART 96-2 pH / SMART WG-2 pH.

The 24VDC power supply is provided by the connection to the PLC power supply.

GND power supply and GND output cannot be combined.

Measuring range: 0...14pH / +/- 1500mV

Input current: 75 fA typ.

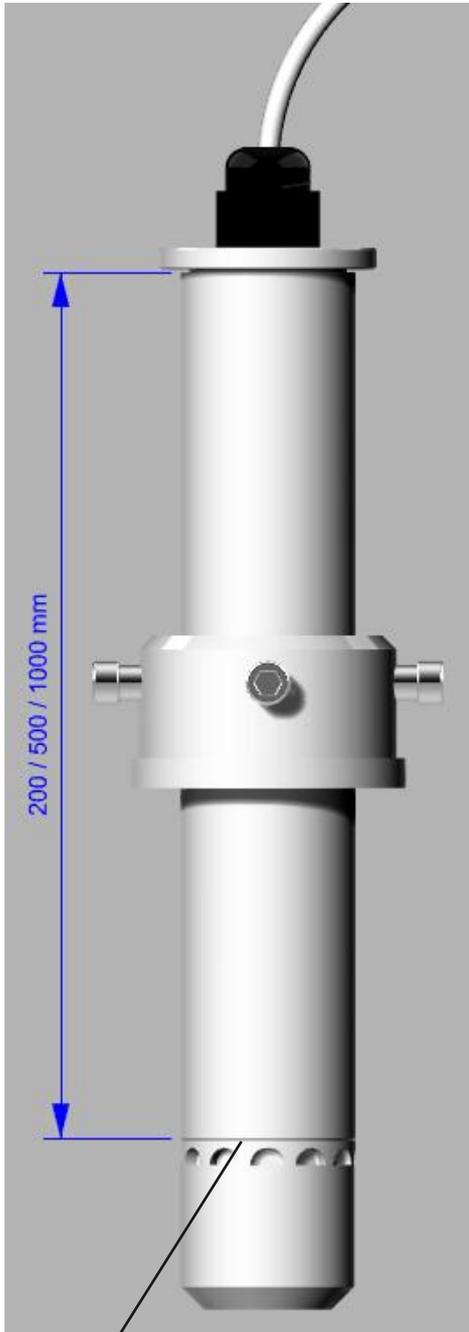
Cable length: up to 100m

Ratio U_{in} to U_{out} = 1:1

Shielded cable should be used from a cable length of 5m.

The shielding should be connected to the protective conductor on the control cabinet side.

TA40 Fitting



TA40 head
0022.4300

TA40 pipe

Length 200 mm 0022.4020

Length 500 mm 0022.4050

Length 1000 mm 0022.4100

The **Collar bushing 0022.4400** is sealed to the immersion tube with an O ring and can be moved over the entire length. It fits into a 2 1/4 "screw connection.

With the **Adapter ring 0022.4500** a Screw connection 2 3/4" can be used.

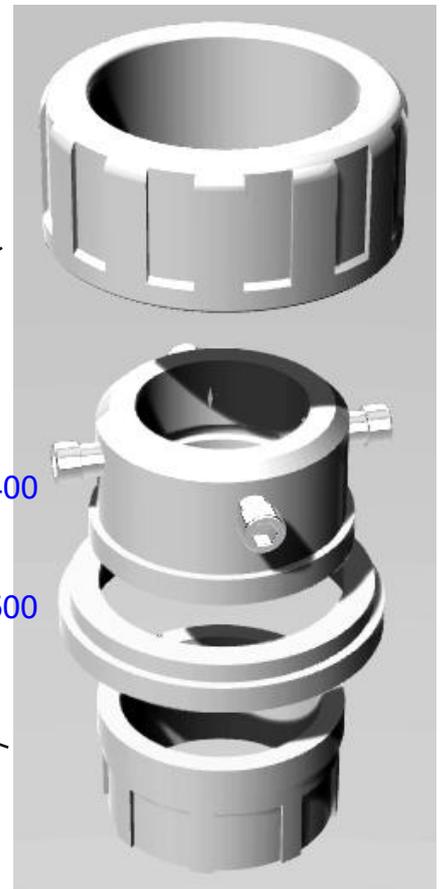
This version is intended for a pressure of up to 4 bar. Prerequisite, the 4 Allen screws are tightened.

Here the pH measuring unit or a 4 electrode conductivity measuring cell is screwed in.

Screw connection 2 3/4"

Collar bushing 0022.4400

Adapter ring 0022.4500





Here the pH measuring unit or a 4 electrode conductivity measuring cell is screwed in.

TA40 connector 0022.0476

Used to connect 2 x TA40 tubes.

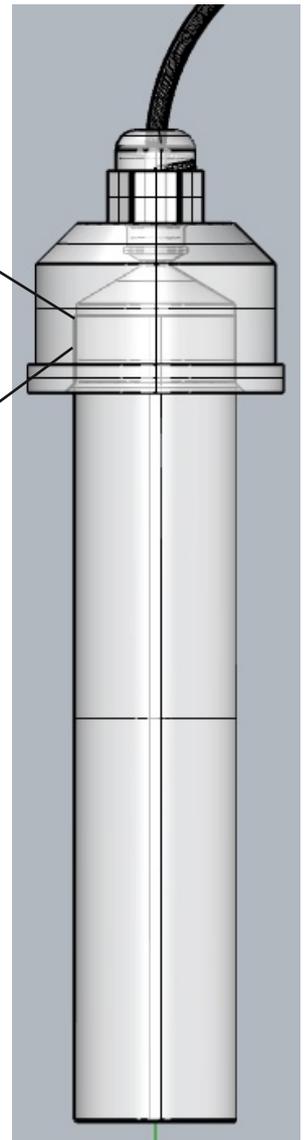


Insertion head 0022.4450

Screw connection 2 1/4"

TA40 pipe is shortened to the required size and welded.

Welding can be carried out by IMO or by the customer.



At a pressure greater than 3..4 bar, we recommend using the **insertion head 0022.4450**.
The **TA40 pipe** is shortened to the required length and welded to the insertion head.
Thus, a pressure > 4 bar is not a problem.
The 2 3/4 "screw connection can also be used with the **adapter ring 0022.4500**.