



SI28

Stainless Steel sensor fitting for measures in depth

Stainless steel sensor fitting designed to house one electrode for the measure of pH, ORP, conductivity or temperature and to allow its immersion down to 250 m.

The probe has a very small diameter and a good weight: it is therefore suitable for the measure in wells for hydrometric measures. The probe is to be connected to a portable meter for the parameter under measure (pH, ORP, conductivity, temperature) through a cable (250 m length) that is also used for probe immersion and lifting.

Typical applications for SI28 sensor fittings are spot measurements of various parameters in wells for hydrometric measures, lakes flumes and basins.



Advantages

- **Sturdy and compact execution**
- **Suitable to house pH, ORP, Conductivity or Temperature sensors**
- **Can be immersed down to 250 m**
- **IP 68 protection degree**
- **SS AISI 316L; ballasted for fast and easy immersion**
- **the 28 mm diameter allows its use in wells for hydrometric measures**

Operating principle and realization

Mod.SI28 probe is completely made of AISI316L stainless steel, has a small diameter of 28 mm and a weight of apprx.3 kg that makes its immersion fast and easy. The probe can house a pH, ORP, Conductivity or temperature sensor of standard dimensions (Ø12 mm, l.120 mm). Proper cable glands, O-ring and seals assure the IP 68 protection degree so that the probe can be immersed down to 250 m.

The sensor protection is screwed on the probe and can be easily removed by hand unscrewing for cleaning and calibration.

A proper cable, max.length 250 m, internally kevlar reinforced, that also allows to easily immerse and lift the probe, is used for the connection to the proper portable instrument.

The cable can also be supplied, upon request, c/w manual winder .

Electrodes that can be installed into the SI28 sensor fitting

pH	Combined electrode c/w preamplifier module	contact Yr.supplier
ORP	Combined electrode	contact Yr.supplier
Conductivity	Conductivity cell	401LxA0Axx
	or Conductivity sensor c/w temperature sensor.....	401Lx(B,CorD)0Axx
Temperature	Temperature sensor Pt100	T0x2xxx

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Technical Specifications

Allowed sensors:..... refer to the given list
Body material:..... AISI 316L stainless steel, NBR seals
Operating temperature limits: 5 to 120 °C
Storage temperature limits:..... 0 to +60 °C
Operating pressure limits:..... 0 to 25 bar
Cable outlet: from cable gland, IP 68 protection degree
Max. allowed distance from sensor to instrument: 250 m
Dimensions: Ø 28 mm, length: 170 mm
Weight:..... approx. 3 Kg

Installation, Calibration & Maintenance

The sensor fitting is used for spot measurements, in connection with a portable meter of the selected parameter.

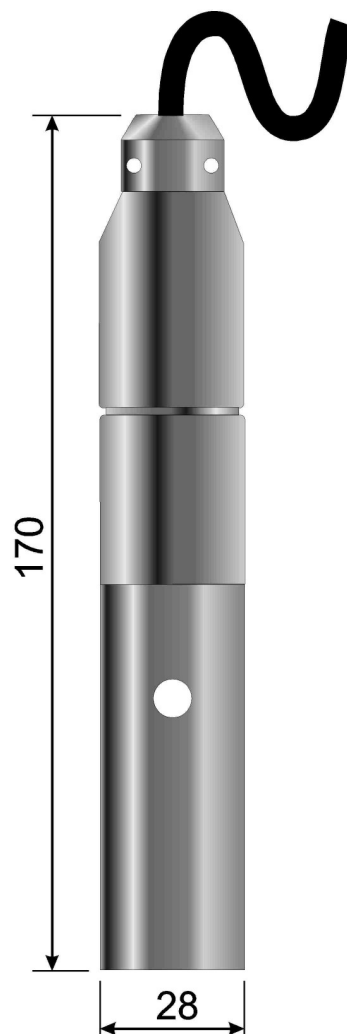
Before calibrating the measuring chain or immersing the probe for the measure make sure the sensor protection cap has been removed.

Before starting a measure campaign verify the calibration of the measuring chain and calibrate if required (refer to instructions given in the manual of the portable meter). After the use clean the electrode (remove the sensor protection for easy cleaning). Store the probe after reinstalling the protective cap on the electrodes (for pH and ORP electrodes fill the cap with water or pH 4 buffer solution).

Attention! conductivity cell electrodes are platinized platinum: never use brushes or any other mechanical cleaning system on them; conductivity cells should be cleaned only with water or diluted acids.

Order code breakdown

	SI28
SS AISI316L Immersion sensor fitting for immersions in depth	SI28



Optional Accessories

Calibration solutions, to be chosen according to measured parameter.

pH 7,00 buffer solution..... T/101-7x
pH 4,00 buffer solution..... T/101-4x
pH 9 buffer solution..... T/101-9x
where x= A : 250 ml bottle; x = B : 500 ml bottle; x = C: 1000 ml bottle.

Known conductivity solution for the calibration of conductivity measuring chain, 250 ml bottleT/401-A
Specify desired conductivity value; typical values are:
1,278 mS, 11,67 mS and 102,09 mS, other values are available upon request.

Known ORP value standard solution, 468 mV, 250 ml bottle.....T/201-468A
Known ORP value standard solution, 220 mV, 250 ml bottle.....T/201-220A

Cable, internally Kevlar reinforced; specify desired length.