



SI0Axx0xx and SI0Bxx00xx

Sensor fitting for immersion installation, 32 mm diameter

Sensor fitting for immersion installations suitable to mount electrodes and cells with standard dimensions ($\varnothing 12$ mm, length 120 mm). These probes are handy and can be easily installed on basins, channels and open tanks. In the 300 mm length execution (SI0x1x0xx) they can be mounted on the Mod.SI/GAL float: this allows to install the sensor fitting even in tanks with variable liquid level with no need for excessive probe lengths that would make handling difficult.

Mod.SI0A and SI0B sensor fittings are made of PP, PVDF or stainless steel, with $\varnothing 32$ mm body and are supplied c/w mounting flange.

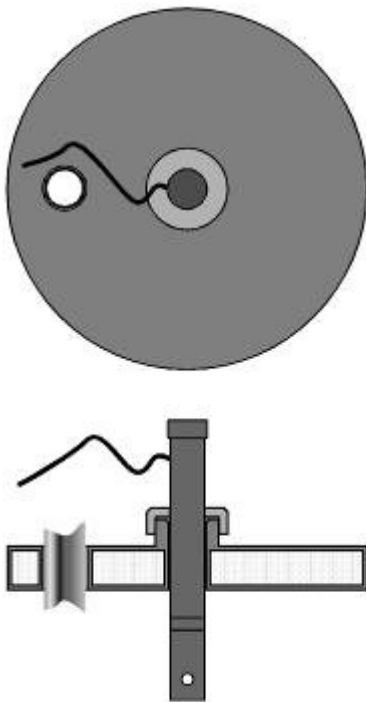
Mod.SI0Bxx0xx probe is supplied c/w chemical cleaning system.

Typical applications for SI0A and SI0B sensor fittings are drinking water plants, wastewater treatment plants, in basins, channels and tanks.



Advantages

- Sturdy and compact execution
- Suitable to house pH, ORP, Conductivity, Dissolved Oxygen, Temperature sensors
- Easy to install
- Supplied c/w sliding fixing flange
- Available for float mounting
- Low maintenance requirements
- Electrodes protection can be removed



Operating principle and realization

SI0A and SI0B sensor fitting includes a body with 32 mm diameter, 600, 1000 or 1500 mm standard length, a cap on the upper part of the fitting and an electrode holder c/w electrode protection. The fitting body is available in PP and PVDF; SS only upon request.

The electrode holder allows easy electrode replacement and the electrode protection may be easily removed if not required.

The sensor fitting can be easily installed through a sliding flange, ISO/DIN DN25, that can be fixed in its position on the body with two screws (included).

The sensor fitting in the 300 mm length version can be mounted on the Mod.SI/GAL float.

Mod.SI0B probe includes sensor chemical cleaning device (the device is always made of PP even on PVDF probes). The cleaning sequence is directly driven by the μ P transmitter connected to the probe.

SI0Axx0xx and SI0Bxx0xx

Electrodes that can be installed into the SI0A and SI0B sensor fitting

pH Combined electrode.....101GEL or 101BB

If separate electrodes are required simply use two SI32 sensor fittings, one with the simple pH measuring electrode and one with the reference electrode:

Simple pH measuring electrode..... S101L
+ Reference electrode..... 301GEL or 301BB or 301L

ORP Combined electrode.....201GEL (Pt or Au) 201BB (Au or Pt)

If separate electrodes are required simply use two SI32 sensor fittings, one with the simple ORP measuring electrode and one with the reference electrode:

Simple ORP measuring electrodeS201LI (Pt or Au)
+ Reference electrode 301GEL or 301BB or 301L

Conductivity Conductivity cell 401LxAx0xx
or Conductivity sensor c/w temperature sensor..... 401Lx(B,CorD)x0xx

D.O. Dissolved oxygen cell 332Pxxx

Temperature Temperature sensor Pt100T0x2xxxx

Technical Specifications

Allowed sensors:..... refer to the given list

Body material:.....PP or PVDF (SS upon request)

Chemical cleaning device material:..... PP (even on PVDF probes)

Operating temperature limits: (*):5 to 70°C (PP); 5 to 110 °C (PVDF); 5 to 120°C (SS)

Storage temperature limits:..... 0 to +60 °C

Electrodes cable: q.ty 1

Max.allowed distance from sensor to instrument:according to sensor specifications

Mounting: supplied c/w mounting flange ISO/DIN DN 25

Dimensions:Ø32 mm, 600 – 1000 – 1500 mm length

Weight:..... apprx.0.4 Kg (600 mm version)

(*) Operating temperature must always respect limits given for each sensor.

Installation, Calibration & Maintenance

The sensor fitting can be installed through the sliding flange in basins or tanks, in a vertical position; it may also be installed in a inclined position, with a maximum deviation of 75° from vertical axis. A stainless steel mounting bracket is available for probe mounting: order code SI0xxx0x1).

The immersion depth can be set by moving the position of the flange on the fitting body ; the flange can then be fixed with the two screws. A 100 mm immersion depth is enough for correct sensor operation.

Make sure the sensor protection cap has been removed before the start up.

This probe has very low maintenance requirements: it is recommended to clean the electrodes at periodical intervals defined by the operators on the basis of his own experience of the specific process. After the cleaning always operate a check of the sensitivity of the measuring chains.

The calibration can be operated either by comparison to properly calibrated portable instruments or extracting the probe from the process liquid, cleaning it and then immersing it into the solutions with known value of the parameter to be calibrated. Calibration frequency is to be defined by the operator according to specific process requirements. A calibration vessel that can be screwed on the probe is available: this makes calibration procedure very easy even on long probes. Order code SI0xxx0Bx).

SI0Axx0xx and SI0Bxx0xx

Order code breakdown

	SI0	x	x	x	x	x	x
Immersion fittings	SI0						
Type of sensor fitting							
Ø 32 mm suitable for 1 sensor, SI/32		A					
Ø 32 mm for 1 sensor, c/w chemical cleaning system SI/32+SI/AP-CH		B					
Special execution		Z					
Probe length (measured under the flange)							
Reserved			0				
300 mm (only for SI/32 probe to be installed into SI/GAL float)			1				
600 mm			2				
1000 mm			4				
1500 mm			5				
Special execution			9				
Probe construction material							
Reserved				A			
Polypropylene, PP (standard)				B			
PVDF, Ø 32 mm fittings, length up to 1000 mm (Note 1)				C			
PVDF, Ø 32 mm fittings, length up to 1500 mm (Note 1)				F			
SS AISI 316, Ø 32 mm fittings, length up to 1000 mm (Note 1)				I			
Special execution				Z			
Fixed Code						0	
Calibration vessel							
Reserved							A
For fittings Ø 32 mm							B
Not included							E
Stainless steel mounting bracket							
Reserved							0
For fittings Ø 32 mm							1
Not included							4

Note 1: Chemical cleaning system is always made of PP.

SI0Axx0xx and SI0Bxx0xx

Accessories included in the supply

Sliding flange ISO/DIN DN25

Optional Accessories

Stainless steel bracket for wall installation Order probe with code SI0xxx0x1

Calibration vessel to be screwed on the electrode holder joint Order probe with code SI0xxx0Bx

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

Float for SI32 installation in tanks or basins with variable level Mod.SI/GAL

SS 316 pipe for float installation : it allows float moving up and down and can be installed

near the tank or basin Mod.SI/T-G

SS 304 pipe, including the shelter for electronic unit installation and protection;

it is supplied complete with the base plate for floor fixing;

the shelter height of installation can be adjusted..... Mod.P/TE

