



## SP36XWCTD Multiparameter probe for measuring water quality

### APPLICATIONS

- Environmental monitoring.
- Groudwater monitoring.
- Water treatment plants.
- Hydrological control.

### KEY FEATURES

- Pressure sensor: resolution 5 ppm.
- Mathematical compensation of nonlinearities and temperature dependencies.
- Sturdy stainless steel housing.
- Extended lightning protection fitted to the SDI-12 interface as standard.
- Level measuring ranges from 0-3 to 0-300 mH2O. Higher ranges are possible using a subcnn connector.
- Ultra-high long-term stability.
- Compatible with Smartyplanet.



The *SP36XWCTD* multiparameter probe is the ideal solution for measuring water level, temperature and conductivity parameters.

It is designed for the hydrological control of different places such as rivers or water treatment plants.

The data collected by the sensors are accurate and reliable. Thanks to the full compatibility of the probe with **the Smartyplanet web platform**, the data is recorded and analyzed instantly.

SENSORES					
PRESSURE		TEMPERATURE		CONDUCTIVITY	
Relative pressure	0,3 1 3 10 30	Measurement range	-10 to +80°C	Measurement range	0 μS/cm...200 mS/cm
Absolut pressure mH2O	0,8..2,3 0,8..4 0,8..11 0,8..31 3 10 30 100 300	Technology	Silicon	Selectable range	0,2 / 2* / 20 / 200* mS/cm
Resistencia sobrecarga	Máx. 300%	Resolution	< 0,01°C	Technology	6 platinum electrodes, 4-cables
Technology	oil-filled, insulated, piezoresistive pressure transducer in a metallic casing	Accuracy	silicon sensor: typ. ± 0,3 °C Pt1000 sensor: ± 0,1 °C max.	Temperature range	-10 to +60°C
Resolution	5 ppm	Int. Measurement rate	12 Hz TOB 6 Hz Pt1000 without conductivity 1 Hz Pt1000 with conductivity	Resolution	< 0,05% from selected range
Accuracy	± 0,02 %FS max. (0,3 bar Range: ± 0,04 %FS)	Comp.temp.range	0 to 50°C	Accuracy	< 2,5% from selected range
Total error	± 0,1 %FS max. (0,3 bar Range: ± 0,2 %FS)	Operating temperatura	-20 to +80°C	Int.measurement	1 Hz
Operating temperatura	-20 to +80°C	Int.measuring rate	120, 240 (default), 480 Hz		
Stability	range > 1 bar: ± 0,1 %FS max. range ≤ 1 bar: ± 1 mbar max.	Degree of dependency on location	± 1,5 mbar max.		

MECHANICAL FEATURES		
<b>ELECTRICAL DATA</b>		
Power supply	RS485 3,2 to 32 VDC	SDI-12 6 to 32 VDC
Power consumption	<6mA (without conductivity) <14mA (with conductivity)	<0,1mA <5,5mA (without conductivity) <13 mA(with conductivity)
Start-up time	<300ms (P1, TOB1) 3s, 6s máx. (P1, T, Con)	<1s <3s
GND	> 10 MΩ @ 300 V	
Resistance	> 10 mio. Pressure cycles 0...100 %FS @ 25 °C	
Storage temperature	-20 to +80°C	
<b>DIGITAL INTERFACE</b>		
Communication protocol	RS485 MODBUS RTU KELLER bus	SDI-12 SDI-12 V1.3
Baud Rates	9600, 115'200 bit/s	1200 bit/s
Identification	Group Class: 5.21	
Pressure units	bar	bar, mbar, mH2O, psi, ftWC, inWC
Temperature units	°C	°C, °F, K
Conductivity units	mS/cm	mS/cm
<b>MECHANICAL DATA</b>		
Dimensions	ø 22 mm	
Weight	170 g sin cable	
Housing material	316 stainless steel	
Wire material	PE	