



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.

SP36XW High-precision pressure level transmitter



The *SP36XW* multiparameter probe is the ideal solution for measuring water level and temperature 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.

Sensors	
PRESSURE	
Relative pressure	0,3 1 3 10 30
Absolut pressure	0,8..2,3 0,8..4
mH2O	0,8..11 0,8..31
	3 10 30 100 300
Resistencia sobrecarga	Máx. 300%
Technology	oil-filled, insulated, piezoresistive pressure transducer in a metallic casing
Resolution	5 ppm
Accuracy	± 0,02 %FS max. (0,3 bar Range: ± 0,04 %FS)
Comp.temp.range	0 to 50°C
Total error	± 0,1 %FS max. (0,3 bar Range: ± 0,2 %FS)
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.
TEMPERATURE	
Measurement range	-10 to +80°C
Technology	Silicon
Resolution	< 0,01°C
Accuracy	silicon sensor: typ. ± 0,3 °C Pt1000 sensor: ± 0,1 °C max.
Int. Measurement rate	12 Hz TOB 6 Hz Pt1000 without conductivity 1 Hz Pt1000 with conductivity

Mechanical features		
ELECTRICAL DATA		
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	
DIGITAL INTERFACE		
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
MECHANICAL DATA		
Dimensions	ø 22 mm	
Weight	170 g sin cable	
Housing material	316 stainless steel	
Wire material	PE	