

TSP

Water Level Sensor

The TSP digitally compensated pressure transmitter combines advanced piezoresistive metal sensor and transmitter design.



Output signal of pressure sensor is gained, digitized and worked in CPU with 16 bit A/D converter, which enables better pressure transmitter linearity and temperature compensation. Output D/A converter is 12 bit.

Measuring principle

Vented pressure probe automatically compensates for changes in atmospheric pressure.

TSP is designed for level measurement in tanks, wells, bore-holes and watercourses.



Standard level ranges
0 to 0.25 m up to 600 m



Alternative of producing and output signals



Integrated overvoltage protection



Interface RS-485, SDI-12



High reliability

Technical data

Measure type	level control of liquids
Certification	standard, military
Measuring range	0 to 0.25 m up to 600 m for density of liquid 1 kg/dm ³
Media temperature	-40 °C to +70 °C
Accuracy	0.1 % for ranges ≥ 1 m 0.25 % for ranges ≥ 0.6 m 0.4 % of range
Dimensions and weight	TSP: 28 x 101 mm, 160 g TSP B*: 28 x 147 mm, 195 g

* With an additional integrated voltage surge barrier

Thermal effect - temperature compensation

Standard	< 0.1 % / 10 °C (in range 0 °C to +70 °C)
Special	< 0.03 % / 10 °C (over different range)
Stability	0.15 % FS / year
Output	<ul style="list-style-type: none"> • 0/4 to 20 mA 3 - wire • 4 to 20 mA 2 - wire • 0 to 1 V 3 - wire • 0 to 10 V 3 - wire • RS-485 other on request
Power supply	24 V DC / 8 (12) V to 36 V
Power supply EEx	24 V DC / 8 V to 28 V
Electrical connection	connector DIN 43650 (included), vented cable

Process connection and gasket material - wetted parts

Overload	by product structure and pricelist (other on request)
Protection	IP 65 with connector, IP 68 with cable

