



## Robust ceramic pressure transducer for water level measurement

- Application
  Surface water, Groundwater
- Measurement technology
  Vented pressure cell
- Parameters measured
  Water level, Pressure, Temperature
- Product Highlights
  Water level and temperature measurement for use with external data logger
- Measurement range
  0 ... 4, 10, 20, 40, and 100 m
- Accuracy
  ± 0.05% FS
- Internal data logger
  No
- Interface
  SDI-12, RS-485 (using SDI-12), or 4 ... 20 mA

The OTT PLS measures water level, depth to water, or pressure by means of an integrated controller and ceramic pressure-measuring cell. Design features such as multiple









communication outputs (SDI-12 or 4 ... 20 mA), stainless steel housing, and a rugged cable make this sensor ideal for monitoring water level in a variety of applications.

Water level measurement	
Measurement range	0 4 m, 10 m, 20 m, 40 m, 100 m

Accuracy	
SDI-12	±0.05 % FS (linearity and hysteresis)
4 20 mA	±0.1% FS (linearity and hysteresis)
	10 ppm/°C at 20 °C
Resolution (SDI-12)	0.001 m; 0.1 cm; 0.01 ft; 0.1 mbar; 0.001 psi
Temperature compensated	-5 °C +45 °C (ice-free)
working range	

Temperature measurement	<b>□-25 °C +70 °C (ice-free)</b>
Resolution	0.1 °C / 0.1 °F
Accuracy	±0.5 °C / ±0.9 °F

Electrical data	
Available interfaces (use as	4 20 mA, SDI-12, RS485 (via SDI-12 protocol)
required)	
Supply voltage	+9.6 +28 V DC, typically 12/24 V DC

Power consumption (SDI-12)	
Sleep	<600 μΑ
Active	<3.6 mA

Pressure sensor	(capacitive pressure sensor) ceramic, temperature
	compensated, overload safe for up to 5 times the measuring
	range without permanent mechanical damage

Temperature sensor	NTC
Dimensions	195 mm x 22 mm

approx. 0.3 kg

Environmental conditions	
Operating temperature	□-25 +70 °C
Storage temperature	□-40 +85 °C

Materials	
Housing	stainless steel 1.4539 (904L) resistant to sea water
Seals	Viton
Cable jacket	PUR
Protection type	IP68
Mechanical Strength	meets the mechanical shock tests of IEC 68-2-32







Weight

## **Technical Data**

OTT PLS - Pressure Level Sensor



EMC limits CE conformity; EN 61000-4-2/3/4/5/6 and EN 61000-6-3 Class B are adhered to



