



### Pressure probe with conductivity measurement cell

- Application Surface water, Groundwater
- Measurement technology Vented pressure cell and 4-electrode graphite conductivity cell
- Parameters measured Water level, Pressure, Conductivity, Temperature
- Product Highlights Water level, temperature, and conductivity measurement - for use with external data logger
- Internal data logger No
- Interface SDI-12 or RS-485 (using SDI-12)

The OTT PLS-C measures water conductivity, level, and temperature in both surface and groundwater applications with a robust ceramic pressure cell and 4-electrode conductivity cell. Its extremely low power consumption makes it ideal for long-term deployment, particularly at solar powered measuring stations for ground-and surface waters.

Output parameters

Water level/pressure, temperature, specific conductivity, salinity, TDS









# **Technical Data**OTT PLS-C



Water level measurement (pressure)	
Pressure sensor	ceramic, temperature-compensated
Measuring range	0 4 m, 0 10 m, 0 20 m, 0 40 m, 0 100 m water col.
Resolution	0.001 m; 0.1 cm; 0.01 ft; 0.1 mbar; 0.001 psi
Accuracy (linearity + hysteresis)	≤ ± 0.05 % FS
Long-term stability (linearity +	≤ ± 0.1 %/a FS
hysteresis)	
Zerodrift	≤ ± 0.1 % FS
Pressure sensor capability to	≥ 4 x measuring range
withstand overloads without	
permanent mechanical damage	
Temperature-compensated	-5 °C +45 °C (ice free)
operating range	
Units	m, cm, ft, mbar, psi

Temperature measurement	
Sensor	NTC
Measuring range	-25 °C +70 °C (ice free)
Calibrated range	+5 °C 45 °C
Resolution	0.01 °C
Accuracy	±0.1°C
Units	°C, °F

Conductivity measurement	
Sensor	4 graphite electrodes
Calibrated range	+5 °C 45 °C

Measuring range 5 2.000 µS/cm	
Resolution	1μS/cm
Accuracy	$\pm 1~\mu S/cm$ or $\pm 0.5~\%$ of measured value (whichever is higher)
Unit	μS/cm

Measuring range 0.1 100	
Resolution	0.01 mS/cm
Accuracy	$\pm$ 0.01 mS/cm or $\pm$ 1.5 % of measured value (whichever is higher)
Unit	mS/cm

Options	
Temperature compensation,	freshwater, saltwater, standard method 2510, ISO 7888/EN27888
conductivity	
Salinity calculation	Standard method or USGS 2311

## Electrical data







# **Technical Data**OTT PLS-C



l Supplu voltago	6 27 \/ DC +unically 12/24 \/ DC
Supply voltage	6 27 V DC, typically 12/24 V DC

Power consumption	
SDI-12 sleep-mode	<30 μAV
SDI-12 active-mode	<32 mA

Interfaces	SDI-12, RS-485 (SDI-12 protocol)
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## Mechanical data

Dimensions		
Probe (Ø x h)	317 mm x 22 mm	
Cable length	SDI-12: 1 100 m	
	RS-485: 1 1000 m	

Material	
Housing material probe	POM, stainless steel
	(DIN 1.4539, 904 L ), resistant to sea water
Cable jacket	PUR

Weight	
Probe	approx. 0.43 kg
Probe cable	approx. 82 g/m

Ambient conditions	
Storage temperature	- 40 °C + 85 °C
Type of protection	Probe: IP 68
EMC limits	EG 2004/108/EG, EN 61326-1:2013





