

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)	$\leq \pm 0.05 \% \text{ FS}$
Long-term stability (linearity + hysteresis)	$\leq \pm 0.1 \% / \text{a FS}$
Zerodrift	$\leq \pm 0.1 \% \text{ FS}$
Pressure sensor capability to withstand overloads without permanent mechanical damage	$\geq 4 \times \text{measuring range}$
Temperature-compensated operating range	-5 °C ... +45 °C (ice free)
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	$\pm 0.1 \text{ °C}$
Units	°C, °F

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

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

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

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

### Electrical data

# Technical Data

## OTT PLS-C



**Supply voltage** 6 ... 27 V DC, typically 12/24 V DC

Power consumption	
SDI-12 sleep-mode	<30 $\mu$ AV
SDI-12 active-mode	<32 mA

**Interfaces** SDI-12, RS-485 (SDI-12 protocol)

### Mechanical data

Dimensions	
Probe ( $\varnothing$ 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