



OTT PLS-C Pressure Level Sensor, Conductivity, 0 - 40 m, RS-485

Product #: 63.038.001.9043

USD Price: Contact Hach

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.

Ceramic pressure cell

The robust ceramic pressure cell offers industry-leading accuracy and does not deform over time like membrane technology, providing long-term measurement stability

Rugged design

Ceramic pressure cell resistant to physical force (4 x burst pressure) and enclosure made of high-quality saltwater resistant steel for use in coastal environments.

Vented pressure probe

Vented pressure probe, automatically compensates for changes in barometric pressure.

Auto compensation

Built-in microcontroller – compensates for temperature effects and applies correction values for gravitational acceleration or water density.

Simple setup

Simple setup and connection to external dataloggers using SDI-12.

Specifications

*Parameters Measured:	Water level
	Pressure
	Temperature
	Conductivity
Accuracy:	Water Level: ± 0.05 % FS (linearity and hysteresis)
	Temperature: ± 0.2 °F (± 0.1 °C)
	Conductivity 5 - 2000 $\mu\text{S/cm}$: ± 1 $\mu\text{S/cm}$ or ± 0.5 % of measured value (whichever is higher)
	Conductivity 0.1 - 100 mS/cm : ± 0.01 mS/cm or ± 1.5 % of measured value (whichever is higher)
Body material:	Stainless steel 1.4539 (904L) resistant to sea water
Calibrated Range:	+41 - +113 °F (+5 - +45 °C)
Interface:	RS485 (via SDI-12 protocol)

Measuring Range:	0 - 131 ft (0 - 40 m)
Power Consumption:	Sleep: $\leq 30\ \mu\text{A}$ Active: $\leq 32\ \text{mA}$
Power Supply:	6 - 27 V DC, typically 12/24 V DC
Protection Class:	IP 68
Resolution:	0.01 ft; 0.001 psi (0.001 m; 0.1 cm; 0.1 mbar)
Standard storage temperature:	-40 - +185 °F (-40 - +85 °C)
Temperature Compensation:	+23 - +113 °F (-5 - +45 °C) (ice-free)
Temperature Range:	-13 - +158 °F (-25 - 70 °C) (ice-free)
Temperature Resolution:	0.01 °F (0.01 °C)