



## OTT PLS-C Pressure Level Sensor with Conductivity, 0 - 20 m, SDI-12

Product #: 63.038.001.9052

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.

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## Specifications

|                       |  |
|-----------------------|--|
| *Parameters Measured: | Water level  |
|                       | Pressure   |
|                       | Temperature  |
|                       | Conductivity   |
| Accuracy:             | Water Level: $\pm 0.05$ % FS (linearity and hysteresis)  |
|                       | Temperature: $\pm 0.2$ °F ( $\pm 0.1$ °C)  |
|                       | Conductivity 5 - 2000 $\mu\text{S/cm}$ : $\pm 1$ $\mu\text{S/cm}$ or $\pm 0.5$ % of measured value (whichever is higher) |
|                       | Conductivity 0.1 - 100 $\text{mS/cm}$ : $\pm 0.01$ $\text{mS/cm}$ or $\pm 1.5$ % 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:            | SDI-12   |

|                               |   |
|-------------------------------|---|
| Measuring Range:              | 0 - 66 ft (0 - 20 m)  |
| Power Consumption:            | Sleep: $\leq 30\ \mu\text{A}$<br><br>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)   |