



## OTT CTD, 131 ft, Alkaline

**Product #:** CTD040MAL

**USD Price:** Contact Hach

The OTT CTD is an integrated sensor and datalogger for measurement of water level, temperature, and conductivity in groundwater and surface water applications.

It features a robust ceramic measuring cell for long term accuracy and has outputs for salinity and total dissolved solids (TDS). Its built in datalogger manages and stores all measurements at user-programmable intervals.

### Complete Solution

Pressure sensor with built-in data logger manages and stores pressure, depth to water, water level (stage), temperature measurements as well as conductivity at programmable intervals.

### Conductivity measurement

Outputs for conductivity include specific conductivity, salinity, and total dissolved solids.

### Accurate

Long-term accuracy: a robust ceramic pressure cell will not deform over time, and an accurate 4-electrode conductivity measuring cell provides outputs for salinity and total dissolved solids (TDS).

### High Performance

Mechanical resistance to pressure overload and corrosive waters.

### Flexible Installation

Easily installs in wells or pipes of 1 inch diameter or larger with use of convenient adapter plates.

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## Specifications

|                          |  |
|--------------------------|--|
| *Parameters Measured:    | Water Level  |
|                          | Pressure   |
|                          | Conductivity   |
|                          | Temperature  |
| Battery Type:            | Alkaline   |
| Body material:           | ABS, POM, 904 L (DIN 1.4539)   |
| Conductivity Accuracy:   | Measuring Range 0.001 - 2.000 mS/cm: $\pm 0.5$ % of measurement value; min $\pm 0.0025$ mS/in ( $\pm 0.001$ mS/cm) |
|                          | Measuring Range 0.1 - 100 mS/cm: $\pm 1.5$ % of measurement value; min $\pm 0.025$ mS/in ( $\pm 0.01$ mS/cm)       |
| Conductivity resolution: | Measuring Range 0.001 - 2.000 mS/cm: 0.0025 mS/in (0.001 mS/cm)  |

|                                   |   |
|-----------------------------------|---|
|                                   | Measuring Range 0.1 - 100 mS/cm: 0.025 mS/in (0.01 mS/cm)                     |
| Interface:                        | Infrared (IrDA)   |
| Level Accuracy:                   | ±0.05 % FS (linearity and hysteresis)   |
| Lifetime at 1h Reading Intervals: | NA, min. 1.5 years (high quality battery types)                               |
| Measuring Range:                  | 0 - 131 ft (0 - 40 m)   |
| Measuring Range Conductivity:     | 0.0025 - 5080 mS/in (0.001 - 2000 mS/cm ); 0.25 - 254 mS/in (0.1 - 100 mS/cm) |
| Memory:                           | 4 MB non-volatile   |
| Number of Measured Values:        | 500000  |
| Operating Temperature Range:      | -13 - +158 °F (-25 - +70 °C) (ice-free)                                       |
| Power Supply:                     | 3 x 1.5 V LR6-cells Alkaline  |
| Protection Class:                 | Communication Unit: IP 67   |
|                                   | Sensor: IP 68   |
| Reading Interval:                 | 1 s - 24 h  |
| Resolution:                       | 0.01 ft; 0.001 psi (0.001 m; 0.1 cm; 0.1 mbar)                                |
| Storage Interval:                 | 1 s - 24 h  |
| System Length:                    | 5 - 656 ft (1.5-200 m)  |
| Temperature Accuracy:             | ±0.9 °F (±0.5 °C)   |
| Temperature Compensation:         | +23 - +113 °F (-5 - +45 °C) (ice-free)  |
| Temperature Resolution:           | 0.01 °F (0.01 °C)   |