Water Level and Temperature Data Logger
Part of the NOMAD® Family

OM-CP-LEVEL1000

The OM-CP-LEVEL1000 accurately monitors and records water level and temperature. Its rugged, stainless steel design allows for the device to be placed in harsh environments, which makes it well suited for use at waste water treatment facilities, monitoring well and ground water levels, irrigation canals, lake and wetland studies and other water level applications. The integrated vented tube allows the device to be atmospheric pressure compensated, providing improved accuracy and resolution over other, non-vented water level recorders.

The OM-CP-LEVEL1000 has the ability to record up to 16,383 readings and store it in its non-volatile memory. Its small size allows it to fit almost anywhere. Data retrieval is simple. Plug it into an empty USB port and the easy to use Windows software does the rest. The software converts your PC into a real time strip chart recorder. Data can be printed in graphical or tabular format and can also be exported to a text or Microsoft Excel.

Specifications

TEMPERATURE
Temperature Sensor: Semiconductor
Temperature Range: -40 to 80°C (-40 to 176°F)
Calibrated Accuracy: ±0.5°C (0 to 50°C)

PRESSURE
Pressure Sensor: Semiconductor strain gage
Media Compatibility: Must be compatible with 303 stainless steel
Level Nominal Range: 0 to 30' (0 to 9 m)
Resolution: 0.02"
Calibrated Accuracy: ±8.3" of water (1.0" typical @ 25°C)
Response Time: 90% change in 1 ms
Repeatability: ±0.5% FSR; ±0.2% typical
Proof Pressure: 45 psig
Burst Pressure: 75 psig
Desiccant: Indicating silica gel inside communications end cap with viewing windows (blue = dry; pink = saturated).
Desiccant Life: 7 days @ 99% RH; (can be generated by heating canister @ 350°F for 1 hour)

GENERAL SPECIFICATIONS
Memory: 16,383 readings per channel; 32,766 total readings
Reading Rate: 1 reading every 2 seconds to 1 every 12 hours
Start Modes: Software programmable immediate start or delay start up to six months in advance
Real Time Recording:
May be used with PC to monitor and record data in real time
Calibration: Digital calibration is available through software
Calibration Date: Automatically recorded with device
Battery Type: 3.6 V lithium battery included; user replaceable
Battery Life: 1 year typical at 25°C
Data Format: Date and time stamped, °C, °F, K, °R; PSI, inches, feet, millimeters, centimeters, meters (of water column)
Time Accuracy: ±1 minute per month when RS232 cable not in use
Computer Interface:
PC serial or USB (interface cable required); 2400 baud
Software: XP SP3/Vista/7 and 8 (32-bit and 64-bit)
Operating Environment:
-40 to 80°C (-40 to 176°F), 0 to 100% RH

Dimensions:
Submersible End:
232 mm dia x 32 mm L (9.1 x 1.25")
Communications End:
181 mm dia x 31 mm L (7.1 x 1.2"), plus cable
Weight: 3 lb (1.4 kg)

To Order

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>OM-CP-LEVEL1000-SS</td>
<td>Water level and temperature data logger (SS)</td>
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<tr>
<td>OM-CP-LEVEL1000-SS-CERT</td>
<td>Water level and temperature data logger (SS) with NIST calibration certificate</td>
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<tr>
<td>OM-CP-IFC200</td>
<td>Windows software and 1.8 m (6') USB interface cable</td>
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<tr>
<td>OM-CP-SVP-SYSTEM</td>
<td>FDA 21 CFR part 11 compliant IQ/OQ/PQ secure software validation workbook and software package (unlimited users, license per computer)</td>
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<tr>
<td>OM-CP-BAT102</td>
<td>Replacement 3.6 V lithium battery</td>
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Data logger is supplied with 30' (9 m) long electrical interface cable/atmospheric pressure compensation tubing assembly. Contact Omega for other lengths.

Comes complete with 3.6V lithium battery. Operator’s manual and USB interface cable are included with the OM-CP-IFC200 software/cable package (required for data logger operation, sold separately). NIST calibration for temperature only.

Ordering Example: OM-CP-LEVEL1000-SS-CERT water level and temperature data logger with NIST calibration certificate and OM-CP-IFC200 Windows software and USB interface cable.