

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

OM-CP-LEVEL1000



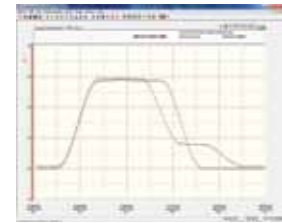
- ✓ Submersible to 30 m (100')
- ✓ Programmable Start Time
- ✓ 0.001 psia Resolution
- ✓ Automatic Atmospheric Pressure Compensation
- ✓ Real Time Operation

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 uses a rugged stainless steel pressure strain gauge to accurately measure the water level. Our user-friendly software will display all pressure measurements in the user's choice of feet, inches, meters, centimeters, millimeters or PSI. The device uses an internal temperature sensor to provide accurate temperature measurements eliminating the need for a separate temperature recorder. The logger can be started to take measurements every two seconds for rapid changes in water level, up to one reading every twelve hours.



OM-CP-LEVEL1000-SS,
data logger shown smaller
than actual size



OM-CP-IFC200 Windows
software displays data in
graphical or tabular format.

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)

Temperature Resolution:

0.1°C

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

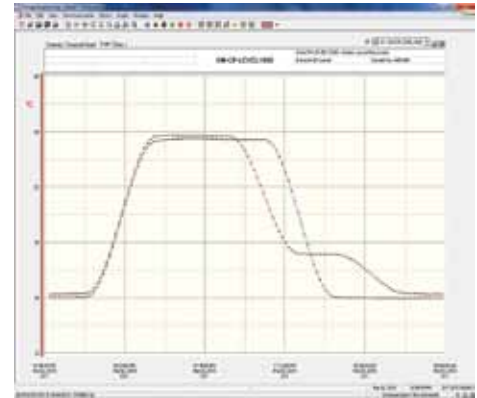
Memory: 16,383 readings per channel; 32,766 total readings

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



OM-CP-LEVEL1000-SS
data loggers
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OM-CP-IFC200 Windows software
displays data in graphical or
tabular format.

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



OM-CP-LEVEL1000 data
logger shown smaller than
actual size

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	
Model No.	Description
OM-CP-LEVEL1000-SS	Water level and temperature data logger (SS)
OM-CP-LEVEL1000-SS-CERT	Water level and temperature data logger (SS) with NIST calibration certificate
OM-CP-IFC200	Windows software and 1.8 m (6') USB interface cable
OM-CP-SVP-SYSTEM	FDA 21 CFR part 11 compliant IQ/OQ/PQ secure software validation workbook and software package (unlimited users, license per computer)
OM-CP-BAT102	Replacement 3.6 V lithium battery

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.