

# OM-CP-LEVEL1000 Water Level and Temperature Data Logger

Part of the NOMAD® Family

**\$659**

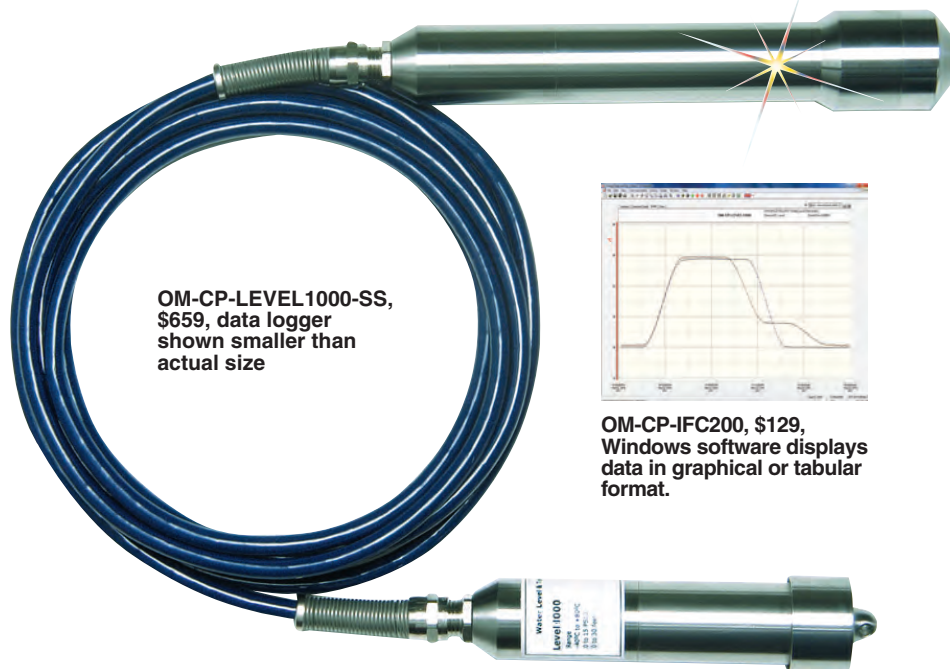
Basic Unit



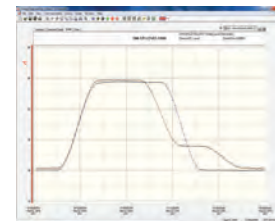
- ✓ Submersible to 30 m (100')
- ✓ Programmable Start Time
- ✓ 0.001 psia Resolution
- ✓ Automatic Atmospheric Pressure Compensation
- ✓ Real Time Operation

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, \$659, data logger shown smaller than actual size



OM-CP-IFC200, \$129, 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'

### Resolution:

0.02"

### Pressure Accuracy:

Nominal range ±0.3% max @ 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:

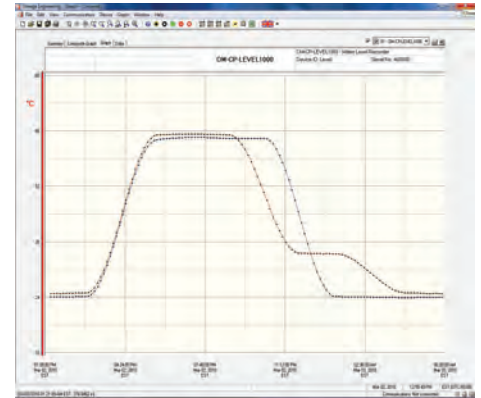
Indicating silica gel inside communications end cap with viewing windows (blue = dry; pink = saturated).

### Desiccant Life:

7 days @ 99% RH; (can be generated by heating canister @ 350°F for 1 hour)



OM-CP-LEVEL1000-SS, \$659, data loggers shown smaller than actual size



OM-CP-IFC200, \$129, Windows software displays data in graphical or tabular format.



OM-CP-LEVEL1000, \$659, data logger shown smaller than actual size

**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 RS-232 cable not in use

**Computer Interface:**

PC serial or USB (interface cable required); 2400 baud

**Software:** XP SP3/Vista and 7 (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)

**AVAILABLE FOR FAST DELIVERY!**

**To Order (Specify Model Number)**

Model No.	Price	Description
OM-CP-LEVEL1000-SS	659	Water level and temperature data logger (SS)
OM-CP-LEVEL1000-SS-CERT	719	Water level and temperature data logger (SS) with NIST calibration certificate
OM-CP-IFC200	129	Windows software and 3.7 m (12') USB interface cable
OM-CP-BAT102	12	Replacement 3.6 V lithium battery

Data logger is supplied with 30' 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, \$719 + 129 = \$848.



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