

OM-CP-LEVEL1000 Water Level and Temperature Data Logger

Part of the NOMAD® Family

\$659
Basic Unit



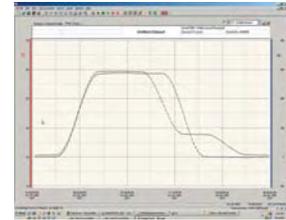
- ✓ Submersible to 60 m (200')
- ✓ Programmable Start Time
- ✓ 0.001 psia Resolution
- ✓ Automatic Atmospheric Pressure Compensation
- ✓ Real Time Operation

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-IFC110, \$99, 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 COM 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

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

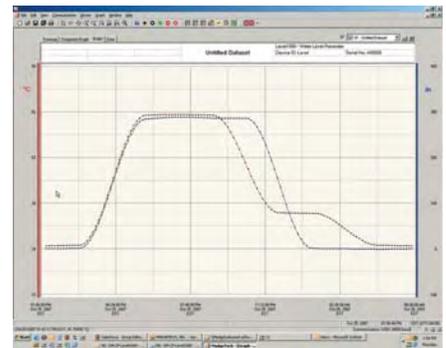
Data Format: Date and time stamped, °C, °F, °K, °R; PSI, inches, feet, millimeters, centimeters, meters of water column)

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: WIN98/NT/2000/XP/VISTA 32-bit (VISTA 32-bit version only; VISTA 64-bit is not supported)

Operating Environment: -40 to 80°C (-40 to 176°F), 0 to 100% RH



OM-CP-IFC110, \$99, Windows software displays data in graphical or tabular format.



OM-CP-LEVEL1000, \$659, 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)

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-IFC110	99	Windows software and 1.2 m (4') RS-232 cable with DB9F termination
OM-CP-IFC200	119	Windows software and 3.7 m (12') USB interface cable
OM-CP-BAT102	10	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. Operator's manual and RS-232 cable are included with the OM-CP-IFC110 Windows software (software is required to operate the data logger and is 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-IFC110 Windows software and RS-232 cable, \$719 + 99 = **\$818**.

omega.co.uk[®]

Your One-Stop Source for Process Measurement and Control!

Freephone 0800 488 488 | International +44(0) 161 777 6622 | Fax +44(0) 161 777 6622 | Sales@omega.co.uk

www.omega.co.uk



UNITED STATES

www.omega.com

1-800-TC-OMEGA
Stamford, CT.

UNITED KINGDOM

www.omega.co.uk

Manchester, England
0800-488-488
+44-(0)161-777-6611

CANADA

www.omega.ca

Laval(Quebec)
1-800-TC-OMEGA

FRANCE

www.omega.fr

0800-466-342

GERMANY

www.omega.de

Deckenfronn, Germany
0800-8266342

BENELUX

www.omega.nl

0800-099-33-44



More than 100,000 Products Available!

• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples, Thermowells and Head and Well Assemblies, Transmitters, Thermocouple Wire, RTD Probes

• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ethernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters