

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

### OM-CP-LEVEL101



OM-CP-LEVEL101 data logger shown larger than actual size

- ✓ Submersible
- ✓ Programmable Start Time
- ✓ User Calibration Through Software

The OM-CP-LEVEL101 is a battery powered, stand-alone submersible water level and temperature data logger.

This all-in-one compact, portable, easy to use device will measure and record up to 16,383 measurements per channel.

The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged.

The OM-CP-LEVEL101 can be started and stopped directly from your computer and 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 be exported to a text or Microsoft Excel file.

### Specifications

#### TEMPERATURE CHANNEL

**Temperature Sensor:**

Semiconductor

**Temperature Range:**

-40 to +80°C (-40 to 176°F)

**Temperature Resolution:** 0.1°C

**Calibrated Accuracy:** ±0.5°C

(0°C to 50°C)

**Pressure Sensor:** Semiconductor strain gage

**Media Compatibility:** Must be compatible with 303 stainless steel

**Nominal Range:** 0 to 30'

**Measurement Range:** 0 to 100'

**Resolution:** 0.05"

**Calibrated Accuracy:** ±8.3" of water (±1.0" typical @ 25°C); not compensated for barometric pressure changes

**Response Time:** 90% change in 1 ms

**Repeatability:** ±0.5% FSR; ±0.2% typical

**Proof Pressure:** 90 psia

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

**Real Time Recording:** May be used with PC to monitor and record data in real time

**Reading Rate:** 1 reading every 2 seconds to every 12 hours selectable in software

**Start Modes:** Software programmable immediate start or delay start up 6 months in advance

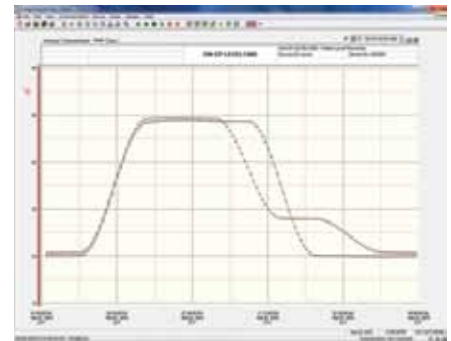
**Calibration:** Digital calibration through software

**Calibration Date:** Automatically recorded with device

**Battery Type:** 3.6V 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)



Windows Software shows data in graphical format

**Time Accuracy:** ±1 minute/month (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:** 145 dia x 32 mm L (5.7 x 1.25")

**Weight:** 220 g (8 oz)

**Material:** 303 stainless steel

To Order	
Model No.	Description
OM-CP-LEVEL101-SS	Water level and temperature data logger
OM-CP-LEVEL101-SS-CERT	Water level and temperature data logger and NIST calibration certificate
OM-CP-IFC200	Windows software and 1.8 m (6') USB interface cable
OM-CP-BAT102	Replacement 3.6V lithium battery

Comes complete with 3.6V lithium battery. Operator's manual and 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-LEVEL101-SS-CERT water level and temperature data logger with NIST calibration certificate and OM-CP-IFC200 Windows software and USB interface cable.