

## pH and Temperature Data Logger Part of the Nomad Family

- ✓ Works with OMEGA® PHE-4200 Series of pH Probes
- ✓ 16-Bit Resolution
- ✓ Programmable Calibration/Start Time
- ✓ Miniature Size
- ✓ Memory Wrap Around
- ✓ User Calibration Through Software
- ✓ Real Time Operation
- ✓ Automatic Temperature

The OM-CP-PH101 is a low cost, high resolution, miniature battery powered, stand-alone data logger used for automatically recording pH between 0.00 and 14.00 pH.

The OM-CP-PH101 uses a 16-bit ADC to achieve a resolution of 0.01pH. In addition, the OM-CP-PH101 will directly connect to many off-the-shelf pH electrodes. The user can easily calibrate to a specific electrode through our software. This all-in-one compact, portable, easy to use device will measure and record up to 8,192 pH and 8,192 temperature measurements. The OM-CP-PH101 is a major leap forward in both size and performance. Its real time clock ensures that all data is time and date stamped. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged. Its small size allows it to fit almost anywhere. Data retrieval is simple. Plug it into an empty USB port and our easy to use 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:** 100Ω Pt RTD

**Calibrated Accuracy:** ±0.01°C @ 25°C ambient (±0.015Ω)

**Temperature Resolution:** 0.01°C (0.001Ω)

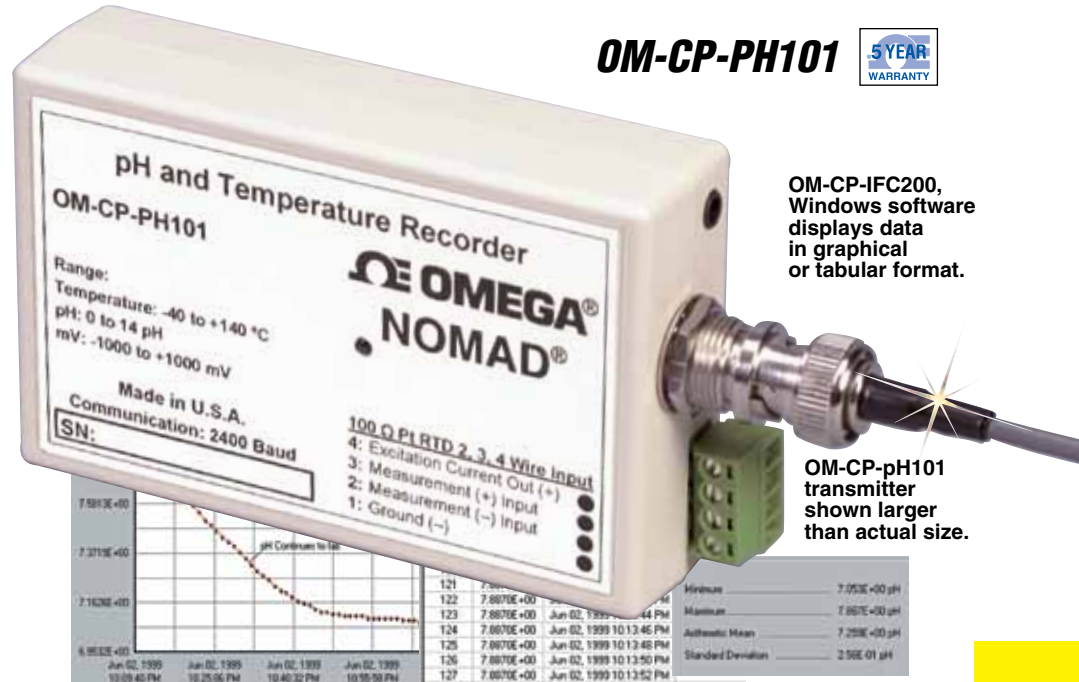
**Measuring Range:** -200 to 850°C (-328 to 1562°F); 0 to 500Ω

**Input Connection:** Removeable screw-terminal

#### pH CHANNEL

**pH Range:** 0.00 to 14.00 pH (-1000 to 1000mV)

**pH Resolution:** 0.01 pH (0.1 mV)



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

OM-CP-PH101 transmitter shown larger than actual size.

**Calibrated Accuracy:** ±0.1pH (±1mV)

**Input Connection:**

Female BNC jack

**Input Resistance:** 10<sup>12</sup> Ω typical

**GENERAL SPECIFICATIONS**

**ADC Resolution:** 16-bits

**pH Calibration:** Digital calibration is available in software

**Recording Interval:** 2 seconds to 12 hours selectable in software

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

**Green Visual Indicator:** LED flashes at selected reading rate

**Memory:** 13,107 readings per channel, 26,214 total readings

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

**Calibration:** Digital calibration through software

**Calibration Date:** Automatically recorded within device

**Power:** 9V lithium battery included; user replaceable

**Battery Life:** 1 year typical with lithium battery at 25°C

**Time Accuracy:** ±1 minute per month at 20°C

**Data Format:** Date and time stamped, °C, °F, K, °R, Ω; pH, V, mV, engineering units specified through software

**Weight:** 120 g (4 oz)

**Computer Interface:** USB (interface cable required); 2,400 baud

**Software:** XP SP3/Vista and 7 (32-bit and 64-bit)

**Operating Environment:** -5 to 50°C (23 to 122°F); 0 to 95% RH non-condensing

**Dimensions:** 61 H x 115 W x 26 mm D (2.4 x 4.5 x 1.0")

**Weight:** 120 g (4 oz)

### To Order

Model No.	Description
OM-CP-PH101	pH and temperature data logger
OM-CP-PH101-CERT	pH and temperature data logger with NIST calibration certificate
OM-CP-IFC200	Windows software and 1.8 m (6') USB interface cable
OM-CP-BAT103	Replacement 9V lithium battery
OM-CP-CONNECTOR-4	Replacement 4 position terminal block connector

Operator's manual, 9V battery included. USB cable are included with the OM-CP-IFC200 Windows software (software is required to operate the data logger and is sold separately). NIST calibration for temperature only.

**Ordering Example:** OM-CP-PH101-CERT pH and temperature data logger with NIST calibration certificate, OM-CP-IFC200 Windows software and USB interface cable.