

## pH and Temperature Data Logger with LCD Display

### OM-CP-PHTEMP2000



- ✓ Large LCD Display
- ✓ Works with OMEGA® PHE-4200 Series of pH Probes
- ✓ Real-Time Operation
- ✓ Programmable Engineering Units
- ✓ NIST Traceable Calibration
- ✓ Automatic Temperature Compensation
- ✓ Programmable Start-Time

The OM-CP-PHTEMP2000 is a battery powered, stand alone pH and temperature data logger with an LCD.

The OM-CP-PHTEMP2000 will directly connect to many commonly used pH, ORP and ISE electrodes through a female BNC connector mounted on its side. Temperature compensation is done automatically by connecting an RTD to the unit. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged.

The OM-CP-PHTEMP2000 makes data retrieval quick and easy. Simply plug it into an empty com port and our user-friendly software does the rest.

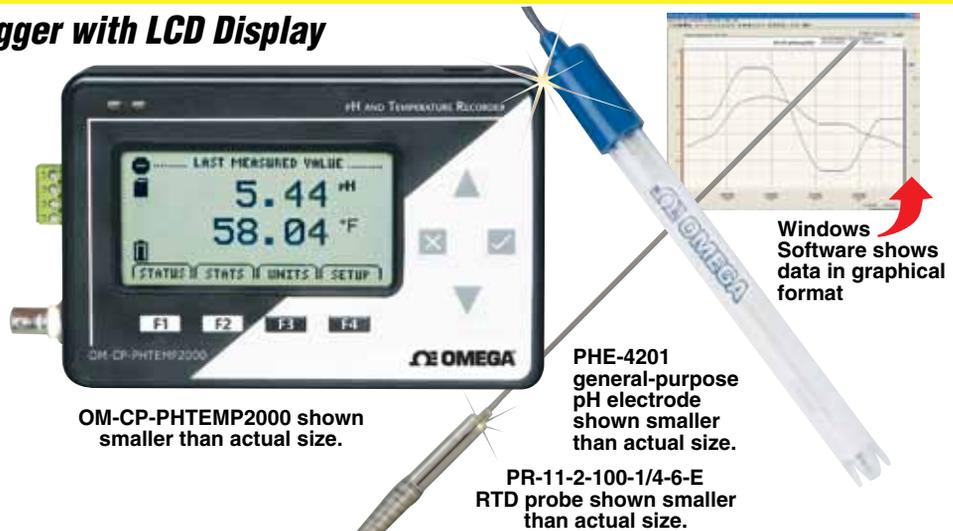
### SPECIFICATIONS

#### TEMPERATURE

**Input:** 100Ω Pt RTD  
**Measurement Range:** -40 to 110°C (-72 to 230°F, 80 to 145 Ω)  
**Resolution:** 0.01°C (0.001 Ω)  
**Calibrated Accuracy:** ±0.15°C @ 25°C ambient (±0.015 Ω)  
**Input Connection:** Removable screw terminal; 2-, 3- or 4-wire interface

#### PH/ORP/ISE

**Input Connection:** Female BNC  
**Measurement Range:** -2.00 to 16.00 pH  
**Resolution:** 0.01 pH (0.001 pH)  
**pH Accuracy:** ±0.01 pH  
**pH EMI Susceptibility:** <0.2 pH @ 3V/M, 80 MHz to 1 GHz  
**ORP/ISE Accuracy:** ±0.1 mV  
**ORP/ISE Susceptibility:** <10 mV @ 3V/M, 80 MHz to 1 GHz  
**Input Impedance:** 10<sup>12</sup> Ω typical



OM-CP-PHTEMP2000 shown smaller than actual size.

PHE-4201 general-purpose pH electrode shown smaller than actual size.

PR-11-2-100-1/4-6-E RTD probe shown smaller than actual size.

Windows Software shows data in graphical format

**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

#### DOT-MATRIX LCD

#### Dimensions:

35 H x 63 mm W (1.375 x 2.5")

**Text:** Configurable channel text size

**Indicators:** Power, status, memory

**Backlight:** Configurable w/auto shut-off and contrast adjustment

**Memory:** 131,071 readings per channel

**Reading Rate:** 1 reading every 2 seconds to 1 every 24 hours

**Calibration:** Digital calibration through software

**Battery Type:** 9V lithium or alkaline battery (included); user replaceable

**Battery Life:** 1 year battery life at 1 minute reading rate with display off; 30 days typical with continuous display use; optional AC adaptor available

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

**Time Accuracy:** ±1 minute/month (at 25°C; RS232 cable not in use)

**Computer Interface:** PC serial or USB (interface cable required); 115,200 baud

**Software:** XP SP3/Vista/7 and 8 (32-bit and 64-bit)

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

**Dimensions:** 84 H x 122 W x 32 mm D (3.3 x 4.8 x 1.25")

**Weight:** 440 g (16 oz)

### To Order

Model No.	Description
OM-CP-PHTEMP2000	pH and temperature data logger with LCD display
OM-CP-PHTEMP2000-CERT	pH and temperature data logger with LCD display and 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-BAT103	Replacement 9V lithium battery
OM-CP-110-PWR-2000	110 Vac power adaptor
OM-CP-220-PWR-2000	220 Vac power adaptor
PHE-4201	General purpose pH electrode
PR-11-2-100-1/4-6-E	General purpose 100Ω RTD probe, 6" sheath, 1/4" diameter

Operator's manual and USB cable are included with the OM-CP-IFC200 (software is required to operate the data logger and is sold separately).

**Ordering Example:** OM-CP-PHTEMP2000, pH and temperature data logger and OM-CP-IFC200, Windows software and 1.2 m (4') USB cable.