

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.

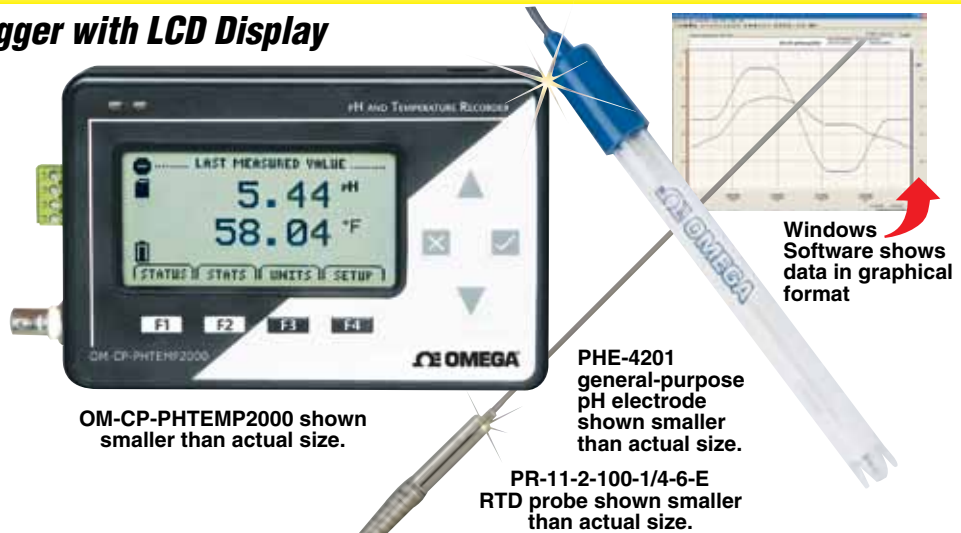
SPECIFICATIONS

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: 10¹² 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.