

# DATA LOGGERS

## Wireless pH and Temperature Transmitter Part of the NOMAD® Family

OM-CP-RFPH101A  
Starts at

**\$449**



- Multiple Transmitter Configurations
- Works with OMEGA® PHE-4200 Series of pH Probes
- Real-Time Operation
- Automatic Temperature Compensation
- Automatically Converts a PC into a Strip Chart Recorder

The OM-CP-RFPH101A is a miniature, wireless, battery-powered, standalone pH and temperature transmitter. This portable, easy-to-use device will read and transmit pH and temperature measurements. When enabled, the wireless transmitter will transmit readings back to the host computer, where the data can be analyzed in real-time. These readings are also logged to the device's memory for added data security. A convenient slide switch turns the transmitter on or off.

The OM-CP-RFPH101A is a major leap in both size and performance. Numerous units can be used to transmit data to the same receiving station. The Windows software converts a PC into a real-time strip chart recorder. Data can be printed in graphical and tabular format or exported to a text or Microsoft Excel file.

### Specifications

#### TEMPERATURE CHANNEL

**Temperature Sensor:** pH electrode with integral 100 Ω Pt RTD temperature sensor or external 100 Ω Pt RTD temperature sensor is required (a 100 Ω resistor be used if temperature compensation is not needed)

**Measurement Range:**  
-200 to 850°C (-328 to 1562°F)

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

**Calibrated Accuracy:**  
±0.1°C @ 25°C ambient (±0.015 Ω)

**Input Connection:**  
Screw terminal; 2, 3 or 4 wire

#### pH CHANNEL

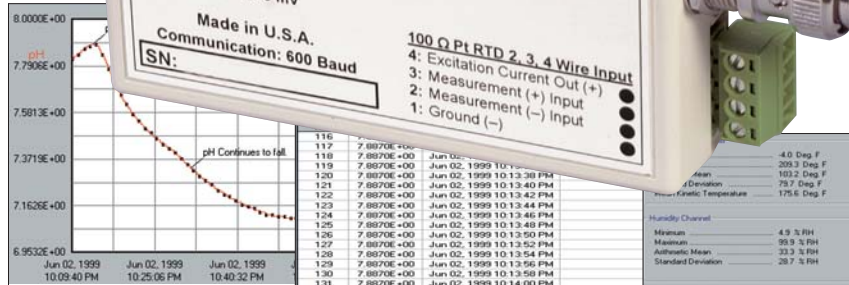
**pH Range:** 0 to 14 pH (-1000 to 1000 mV)

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

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

**Input Connection:** Female BNC jack

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



OM-CP-RFC200A, \$249, Windows software displays data in graphical or tabular format

#### GENERAL SPECIFICATIONS

**Start Time:** Software-programmable start time and date, up to six months in advance

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

**Memory:** 13,107 readings per channel

**Reading Interval:** 1 reading every 30 seconds to 1 every 12 hours

#### Calibration:

Digital calibration through software

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

**Time Accuracy:** ±1 minute/month at 20°C when RS-232 port is not in use

**Computer Interface:** PC serial, RS-232C COM or USB interface cable (required); 57,600 baud

**RF Baud Rate:** 4800 baud

**RF Carrier Frequency:** 418 MHz

**Range:** 36.6 m (120') line of sight

**Power:** 9 V lithium battery included

**Battery Life:** 1 year typical (1-minute reading rate @ 25°C)

**Weight:** 113 g (4 oz)

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

#### Operating Environment:

-5 to 50°C (23 to 122°F)

5 to 95% RH non-condensing

**Dimensions:** 114 H x 61 W x 25 mm D (4.5 x 2.4 x 1.0")

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

**AVAILABLE FOR FAST DELIVERY!**

To Order (Specify Model Number)		
Model No.	Price	Description
OM-CP-RFPH101A	\$449	Wireless pH and temperature transmitter
OM-CP-RFPH101A-CERT	509	Wireless pH and temperature transmitter with NIST calibration certificate
OM-CP-RFC101A	199	Receiver package includes RF receiver, 1.2 m (4') RS-232 cable with DB9F termination, Windows software and operator's manual
OM-CP-RFC200A	249	Receiver package includes RF receiver, 3.7 m (12') USB cable, Windows software and operator's manual
OM-CP-BAT103	20	Replacement 9 V lithium battery
OM-CP-CONNECTOR-4	10	Replacement 4 position terminal block connector

Operator's manual, battery, USB cable and receiving antenna are included with the OM-CP-RFC200A Windows software (required to operate the data logger and sold separately). NIST calibration for temperature only.

**Ordering Example:** OM-CP-RFPH101A-CERT wireless pH and temperature transmitter with NIST calibration certificate and OM-CP-RFC200A Windows software and USB cable with receiving antenna, \$509 + 249 = \$758.



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