

Intrinsically Safe Temperature and Humidity Data Logger



OM-CP-RHTEMP1000IS-A



Optional

- ✓ Intrinsically Safe for Class I, Division 1, Groups ABCD; Non-Incendive for Class I, Division 2, Groups ABCD Locations
- ✓ 316 Stainless Steel Enclosure
- ✓ Compact Design
- ✓ Fast Response Time
- ✓ Faster Downloads (1 Minute Full Memory)
- ✓ Docking Station Communication
- ✓ Easily Identify Low Battery Voltage

The new OM-CP-RHTEMP1000IS-A is an intrinsically safe temperature and humidity data logger certified for Class I, Division 1, Groups A, B, C, and D and non-incendive for Class I, Division 2 Groups A, B, C, D environments. This certification makes the device ideal for EtO sterilization, environmental studies, medical and pharmaceutical and numerous other hostile environment applications.

One of the enhancements to the OM-CP-RHTEMP1000IS-A is the stainless steel enclosure with engraved serial number and device name. The device interfaces with the OM-CP-IFC400 docking station or the OM-CP-IFC406 multiplexer data logger interface (sold separately) and can be placed directly into the dock for full communications. No more removal of end-caps to download data. The small size of the OM-CP-RHTEMP1000IS-A allows it to be placed in remote or hard to reach locations. The device now features a battery life indicator allowing users to easily identify low voltage and change batteries when required. This feature maximizes the use of your battery life and is a cost saving efficiency.

The OM-CP-RHTEMP1000IS-A utilizes the latest software. This allows for simple starting, stopping and downloading of collected data. The devices are able to store up to 16,350 time and date stamped humidity and temperature readings in non-volatile solid state memory. Once the readings have been downloaded to the software, it can be viewed in graphic, tabular, and summary form for easy analysis, as well as the potential to be exported into Excel® for further calculations.

Specifications

TEMPERATURE

Temperature Sensor: Resistance Temperature Detector (RTD)

Temperature Range: -40 to 80°C (-40 to 176°F)

Temperature Resolution: 0.01°C



OM-CP-RHTEMP1000IS-A shown larger than actual size.

Temperature Response Time in Air:

t63 - 8 minutes to 63% of change

t90 - 68 minutes to 90% of change

Calibrated Accuracy: ±0.5°C (0 to 50°C)

HUMIDITY

Humidity Sensor: Capacitive polymer

Humidity Range: 0 to 100% RH (non-condensing)

Humidity Resolution: 0.1% RH

Humidity Response Time in Air:

t63 - 30 seconds to 63% of change

t90 - 2 minutes to 90% of change

Calibrated Accuracy: ±3.0% RH maximum

GENERAL

Start Modes: Software programmable immediate start or delay start up to 24 months in advance

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

Memory: 16,350 readings per channel

Password Protection: Yes

Reading Rate: 1 reading every second up to 1 reading every 24 hours

Calibration: Digital calibration through software

Calibration Date: Automatically recorded within device

Memory Wrap: Yes

Data Format: Date and time stamped °C, °F, K, °R ; %RH, mg/mL, dew point

Battery Life: 2 years typical at 25°C (15 minute reading rate)

Battery Type: 3.6V lithium battery included, user replaceable

Time Accuracy: ±1 minute/month at 25°C

Computer Interface: OM-CP-IFC400 USB docking station or OM-CP-IFC406 multiplexer interface required; 125,000 baud

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

Operating Environment: -40 to 80°C (-40 to 176°F), 0 to 95% RH (non-condensing)

Dimensions: 42 L x 24.6 mm dia (1.7 x 0.97")

Weight: 65 g (2.3 oz)

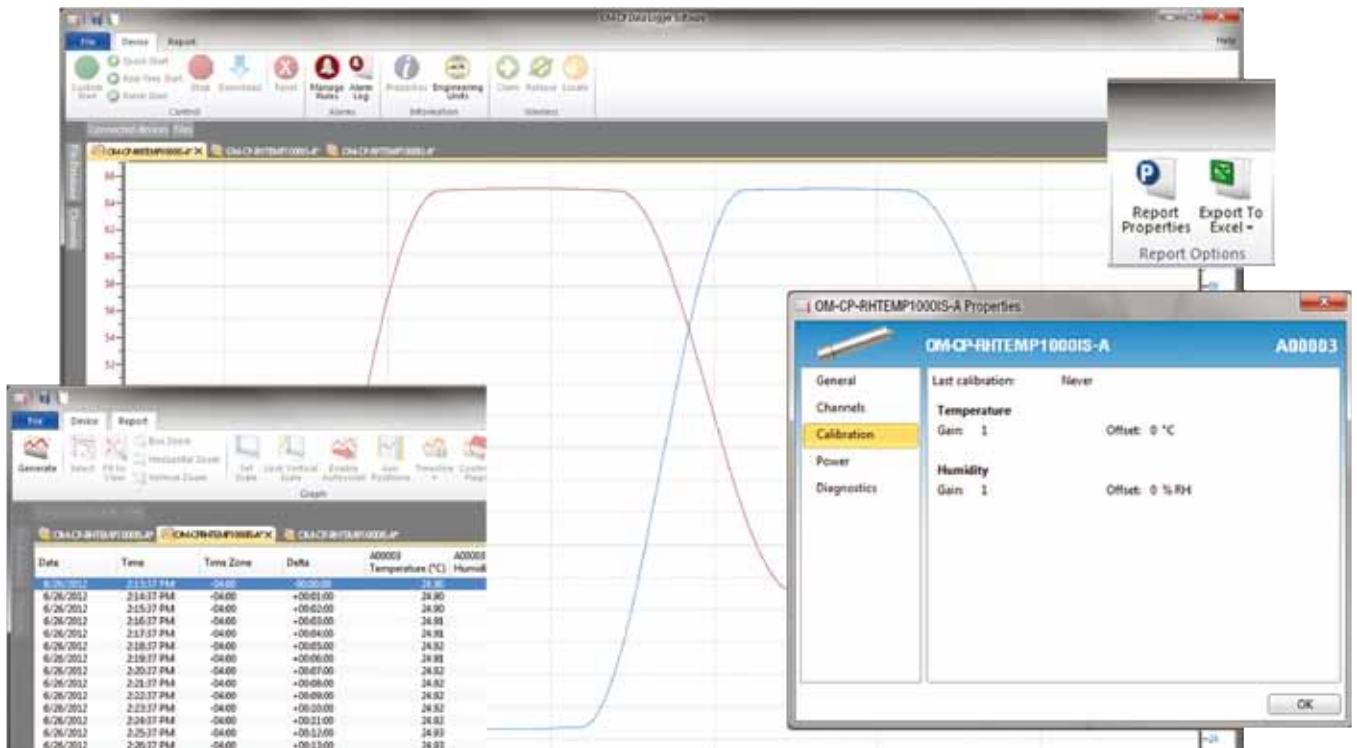
Material: 316 Stainless Steel



OM-CP-RHTEMP1000IS-A, data logger and OM-CP-IFC400 docking station, shown actual size.



OM-CP-IFC406 multiplexer data logger interface, shown smaller than actual size.



OM-CP-IFC400, Windows software displays data in graphical or tabular format.

To Order	
Model No.	Description
OM-CP-RHTEMP1000IS-A	Intrinsically safe temperature and humidity data logger
OM-CP-RHTEMP1000IS-A-CERT	Intrinsically safe temperature and humidity data logger with NIST calibration certificate [25°C (77°F), 25% RH and 75% RH]
OM-CP-IFC400	Docking station (for single data logger) with USB cable, software and manual
OM-CP-IFC406	Multiplexer data logger interface (accepts up to 6 data loggers) with USB cable, software and manual
OM-CP-BAT102	Replacement 3.6V lithium battery
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)

Comes complete with 3.6V lithium battery. Operator's manual and USB interface cable are included with the OM-CP-IFC400 software/cable package or OM-CP-IFC406 multiplexer (required for data logger operation), sold separately.

Ordering Example: OM-CP-RHTEMP1000IS-A intrinsically safe temperature and humidity data logger.