Portable Temperature/Humidity Data Loggers with USB Interface

NEW

OM-140 Series

1 YEAR WARRANTY

- **One Button Starts/Stops Data Logging Without a PC**
- **Plug-and-Play USB 2.0 Interface; No Need for Cables, Cradles or Docks**
- **Large Storage Capacity: 16,000 Pairs of Temperature and Humidity Readings**
- **3½-Digit LCD Displays Real-Time Temperature and RH Readings, Device Working Status and "Memory Full" (OM-143 and OM-144 Only)**
- **Built-In Infrared Thermometer for Checking Temperature of Vents and Surfaces (OM-144 Only)**
- **Sampling Time and Hi/Lo Temperature and RH Alarm Setpoints are Selectable Using Included Software**
- **Software Also Calculates Dew Point and Wet Bulb Temperatures, and Mixing Ratio as GPP (Grains per Pound) or GPK (Grams per Kilogram)**
- **One-Click Exporting of Logged Data to Excel® or Word**
- **Long Battery Life (Up to One Year)**



All models shown smaller than actual size.

OM-144



Protective USB cap for OM-144 included.

OM-143



OM-141



Protective USB cap and magnetic mounting base included with OM-143 and OM-141.

The OM-140 Series are low-cost, compact, battery-powered temperature/humidity data loggers capable of unattended logging (recording) of the ambient temperature and relative humidity (RH) of an environment for days, weeks or months. The OM-144 data logger can also measure and optionally log surface temperatures spot-checked by a technician using the unit's integral infrared (IR) thermometer. In addition, these units can also calculate and display absolute humidity levels in units of grains per pound (GPP) or g/kg. Also called mixing ratio, GPP is a more useful moisture metric than RH to water damage restorers. Using RH alone, a restorer might unknowingly introduce moist air—with a low RH but a high GPP—during a job's drying phase.

Data logging can be started or stopped by pushing a button on the unit, eliminating the need to bring a laptop to the job site. After a data log has been captured and stored, it can be uploaded as a .txt file to any PC running the Windows® XP/7 or 8 operating system after plugging the data logger into one of the computer's USB ports. The data logger's internal flash memory is large enough to store 16,300 pairs of temperature and RH readings or for the model OM-144 nearly 10,000 sets of RH, ambient temperature and surface temperature readings. Included with the product is a mini-disc with the drivers needed to interface the unit to the computer, as well as software that can display a data log file as a table or graph and/or export it to Microsoft Excel. Exporting to Excel is recommended for sophisticated trending and analysis of humidity and temperature data and easy detection of unexpected excursions.

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SPECIFICATIONS			
Model No.	**OM-141**	**OM-143**	**OM-144**
Ambient Temperature Measurement Range	-20 to 70°C (-4 to 158°F)		
Ambient Temperature Measurement Accuracy	±1.0°C (±1.8°F) from -10 to 40°C (14 to 104°F); ±2.0°C (±3.6°F) elsewhere in range		
Ambient Temperature Measurement Resolution	±0.1°C (±0.2°F)		
Ambient Temperature Response Time	5 to 30 seconds		
RH Measurement Range	0 to 100% RH		
RH Measurement Accuracy	±3% RH from 20 to 80% RH; ±3.5% RH elsewhere		
RH Measurement Resolution	0.1% RH		
RH Response Time	8 seconds		
GPP Measurement Range	0 to 1500 GPP (0 to 285 g/kg)		
Internal Storage Capacity	16,000 pairs of RH and temperature readings		16,000 pairs of RH and temperature readings or 10,000 RH and temperature sets + IR readings
Sampling Rate	Adjustable from 10 seconds to 12 hours		
Infrared Thermometer Surface Temperature Measurement Range	NA		-20 to 250°C (-4 to 482°F)
Infrared Thermometer Surface Temperature Measurement Accuracy	NA		±3.0°C (±4.0°F)
Infrared Thermometer Surface Temperature Measurement Resolution	NA		±0.1°C (±0.2°F)
Infrared Thermometer Operating Ambient Temperature Range	NA		0 to 40°C (32 to 104°F)@10 to 90% RH
Infrared Thermometer Distance-to-Spot Ratio	NA		2:1
Infrared Thermometer Emissivity	NA		0.95 (fixed)
Infrared Thermometer Response Time	NA		0.5 seconds
Laser Power	NA		1 mW (Class 2)
Dimensions (OM-141 and OM-143 Include Mounting Base)	31 W x 95 L x 28 mm D (1.22 x 3.74 x 1.10")	32 W x 132 L x 28 mm D (1.26 x 5.19 x 1.11")	43 W x 125 L x 23 mm D (1.69 x 4.92 x 0.91")
Weight	200 g (7 oz)		
Power	3.6 V non-rechargeable lithium ion battery		
Battery Life	1 year typical		

OMEGA CARE℠ Extended Warranty Program

OMEGACARE℠ extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE℠ covers parts, labor and equivalent loaners.

To Order	
Model No.	**Description**
OM-141	Temperature/humidity data logger
OM-143	Temperature/humidity data logger with LCD display
OM-144	Temperature/humidity data logger with LCD display and built-in infrared thermometer
OM-EL-BATT	Replacement 3.6V lithium battery

Comes complete with Windows software on CD, protective cap, USB extension cable, 3.6V lithium battery and user's manual. Models OM-141 and OM-143 also include a magnetic mounting base.

***Ordering Example: OM-144** temperature/humidity data logger with LCD display and built-in infrared thermometer and **OCW-1,** OMEGACARE℠ extends standard 1-year warranty to a total of 2 years.*

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