NEW

Temperature and Humidity Data Loggers

OMYL-RH20 shown
larger than actual size.

OMYL-RH20 and OMYL-RH20E

1 YEAR WARRANTY | CE

✔ **Integral Temperature/Humidity Sensors**
✔ **OMYL-RH20 Has Internal Temperature/ Humidity Sensors**
✔ **OMYL-RH20E Has Temperature/Humidity Sensors Fitted in Integral Probe**
✔ **Up to 4 Million Readings (Internal Memory Size)**
✔ **Up to 4 Hz Sampling Rate**
✔ **High Accuracy**
✔ **20 Bit A/D Converter**
✔ **Shock Proof, IP65 Housing (Dust and Water Jet Proof)**
✔ **Transfer Rate of 500 kbps**
✔ **Low Current Consumption**
✔ **Up to 4 Years Battery Life**

The OMYL-RH20 and OMYL-RH20E are robust devices capable of logging temperature and humidity readings and are software configurable to record either both of these parameters or just individual variables. These data loggers are available with standard memory of 100,000 readings (OMYL-RH20, OMYL-RH20E) or expanded memory of 4 million readings (OMYL-RH20-4M, OMYL-RH20E-4M). The OMYL-RH20/OMYL-RH20-4M have built-in sensors for temperature and humidity. The OMYL-RH20E/ OMYL-RH20E-4M have the temperature and humidity sensors fitted in an integral 100 mm steel probe. These data loggers are suited for a variety of applications including environmental or climate studies, meteorological research and also in clean rooms and laboratories.

The storage medium is non-volatile flash memory so no data is lost if the battery becomes discharged. Data logger setup as well as data retrieval is accomplished using the included standard OMYL-SOFT software. Downloaded data is stored in the OMYL-SOFT software as a text file for viewing in third party software packages or Microsoft Excel. The OMYL-SOFT standard software does not include any graphing functionality. Graphing and analyzing downloaded data files requires the OMYL-SOFT-PLUS version of the software (sold separately).

SPECIFICATIONS
Sensor Type
  OMYL-RH20/OMYL-RH20-4M: Internal temperature and humidity sensors
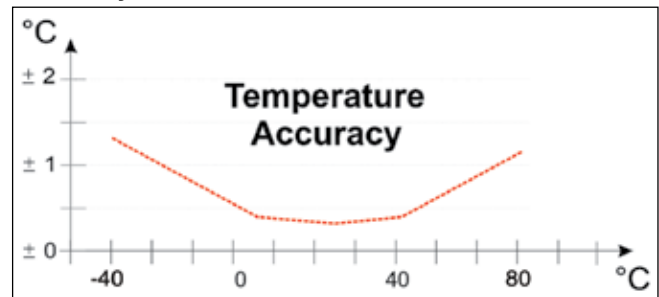 **OMYL-RH20E/OMYL-RH20E-4M:** Temperature and humidity sensors fitted in integral probe

Temperature: Range: -30 to 70°C (-22 to 158°F) with standard lithium battery (included); -40 to 90°C (-40 to 194°F) with optional high temperature lithium battery
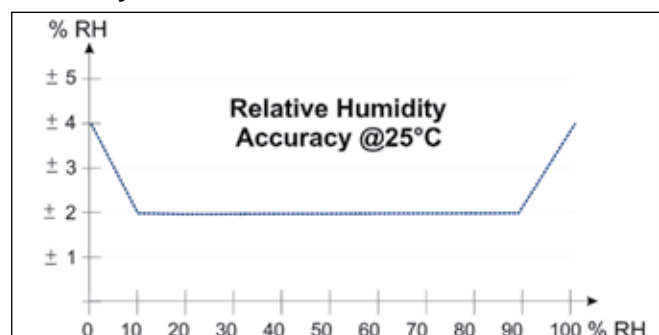**Resolution:** 0.01°C (0.02°F)
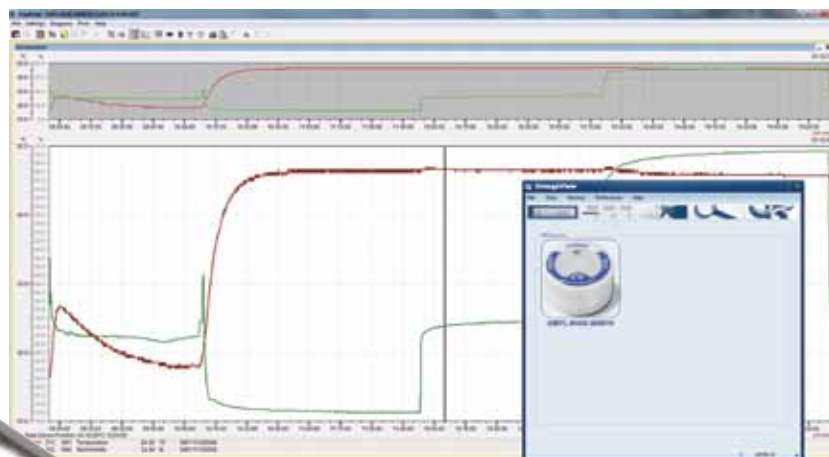**Accuracy:** See chart below

Humidity
  Range: 0 to 100 %RH
  Resolution: 0.01 %RH
Accuracy: See chart below

OMYL-RH20E shown smaller than actual size.

OMYL-SOFT-PLUS graphical display.

Reading Rate: 1 second to 24 hours; 2 Hz, 4 Hz in fast mode

Start Modes: Immediate start, delayed start

Memory Capacity

  OMYL-RH20, OMYL-RH20E: 100,000 readings

  OMYL-RH20-4M, OMYL-RH20E-4M: 4 million readings

Memory Wrap Around: Yes (software configurable)

Battery: 3V lithium battery [standard temperature range battery (included), optional high temperature range battery]; user replaceable

Battery Life (Standard Temperature Range Battery): 4 years at 1 minute reading rate, 230 days at 10 second reading rate, 25 days at 1 second reading rate

LED Functionality: Integrated status LED indicates data logging status, low battery or alarm condition

Alarms: Software programmable high/low thresholds

Computer Interface: USB (interface cable included)

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

Operating Environment: -30 to 70°C (-22 to 158°F) with standard lithium battery; -40 to 90°C (-40 to 194°F) with optional high temperature lithium battery

Dimensions

  OMYL-RH20, OMYL-RH20-4M: 30 H x 50 mm dia (1.18 x 1.97")

  OMYL-RH20E, OMYL-RH20E-4M: 30 H x 50 mm dia (1.18 x 1.97") with 100 L x 8 mm dia probe (3.94 x 0.31")

Weight: 70 g (2.5 oz)

Enclosure: Robust, shock-proof POM, IP65

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
OMYL-RH20	Temperature and humidity data logger with internal sensors, 100,000 readings
OMYL-RH20-4M	Temperature and humidity data logger with internal sensors, 4 million readings
OMYL-RH20E	Temperature and humidity data logger with integral temperature/humidity probe, 100,000 readings
OMYL-RH20E-4M	Temperature and humidity data logger with integral temperature/humidity probe, 4 million readings

Comes complete with 3V lithium battery (standard temperature range), 1.8 m (6') USB interface cable, OMYL-SOFT software and operator's manual on USB stick.

*Ordering Example: **OMYL-RH20**, temperature and humidity data logger with internal sensors, 100,000 readings and **OCW-1,** OMEGACARE ℠ extends standard 1-year warranty to a total of 2 years.*

Accessories

Model No.	Description
OMYL-SOFT-PLUS	Plus version of the software for graphing and analyzing data files
OMYL-WH20	Wall mount holder for data logger (includes tamper evident lead seal)
OMYL-WS50	Set of 50 tamper evident lead seals (50 wires and 50 seals)
OMYL-RS-OM	Radiation screen including offset mount for OMYL-RH20E and OMYL-RH20E-4M data loggers with integral probe (protects external probe from effects of direct sunlight and rainfall when used outdoors)
OMYL-BATT	Replacement 3V lithium battery (standard temperature range)
OMYL-BATT-HT	Replacement 3V lithium battery (high temperature range)