

Temperature/Humidity Data Logger with 2 External Inputs



OMYL-RH25



OMYL-RH25 shown larger than actual size.

- ✓ Integral Temperature/Humidity Sensors
- ✓ Plus 2 External Inputs for Temperature (Pt100/Pt1000 RTD/Thermistor) or Temperature/Humidity Probes
- ✓ 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-RH25 is a temperature/humidity data logger that also accepts two external temperature or temperature/humidity inputs. This data logger is available with standard memory of 100,000 readings (OMYL-RH25) or expanded memory of 4 million readings (OMYL-RH25-4M). The following inputs can be configured:

- Internal temperature and humidity sensors
- External temperature (Pt100/Pt1000 RTD, Type U thermistor)
- External temperature/humidity (for combined external temperature/humidity probes)

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).

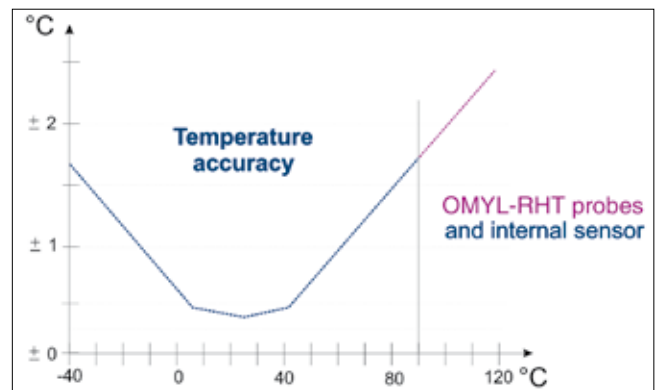
SPECIFICATIONS

Internal Temperature

Temperature Range: -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

Temperature Resolution: 0.01°C (0.02°F)

Accuracy: See chart below



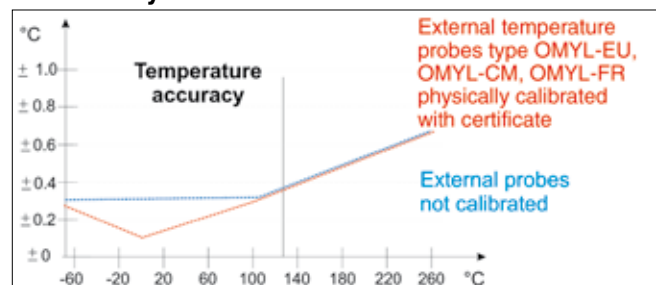
External Temperature Input

Sensor: Pt100 or Pt1000 RTD, U thermistor (2000Ω @ 25°C)

Range: -70 to 250°C (-94 to 482°F)

Resolution: 0.01°C (0.02°F)

Accuracy: See chart below



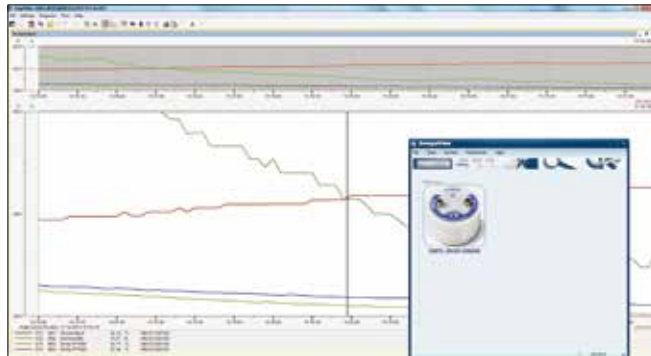
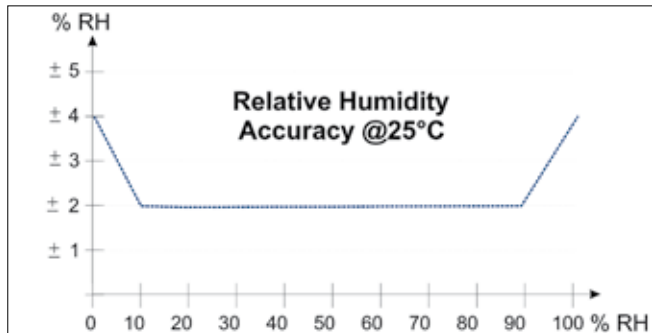
Internal/External Humidity

Humidity Range: 0 to 100% RH

Humidity Resolution: 0.01% RH

Accuracy: See chart below

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



OMYL-SOFT-PLUS graphical display.

Start Modes: Immediate start, delayed start

Memory Capacity

OMYL-RH25: 100,000 readings

OMYL-RH25-4M: 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)

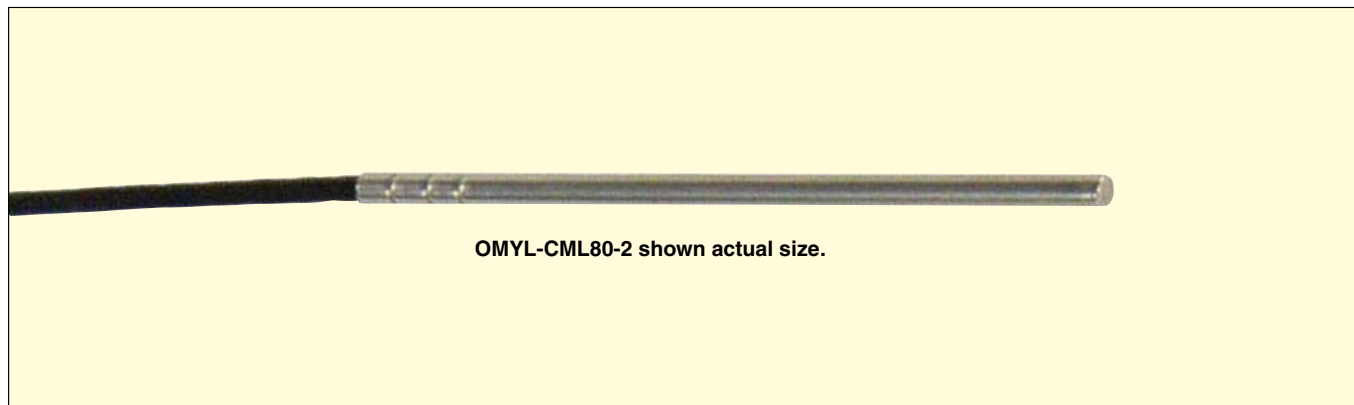
Operating Environment: -30 to 70°C (-22 to 158°F) with standard lithium battery; -40 to 90°C (-40 to 194°F) with optional high temperature lithium battery

Dimensions: 30 H x 50 mm dia (1.18 x 1.97")

Weight: 70 g (2.5 oz)

Enclosure: Robust, shock-proof POM, IP65

General Purpose Pt1000 RTD Temperature Sensors



OMYL-CML80-2 shown actual size.

Model No.	Stainless Steel Probe		Cable		
	Operating Temperature	Dimensions (mm)	Material	Length	Maximum Operating Temperature
OMYL-CML80-2	-70 to 250°C (-94 to 482°F)	100 L x 4 mm dia (4 x 0.16")	PVC	2 m (6.6')	80°C (176°F)
OMYL-CML80-5			PVC	5 m (16.4')	80°C (176°F)
OMYL-CML120-2			PTFE	2 m (6.6')	120°C (248°F)
OMYL-CML120-5			PTFE	5 m (16.4')	120°C (248°F)
OMYL-CMS80-2		50 L x 4 mm dia (2 x 0.16")	PVC	2 m (6.6')	80°C (176°F)
OMYL-CMS80-5			PVC	5 m (16.4')	80°C (176°F)
OMYL-CMS120-2			PTFE	2 m (6.6')	120°C (248°F)
OMYL-CMS120-5			PTFE	5 m (16.4')	120°C (248°F)

Pt1000 RTD Sensors for Surface Temperature Measurement



Model No.	Stainless Steel Base		Cable		
	Operating Temperature	Dimensions	Material	Length	Maximum Operating Temperature
OMYL-EU80-2	-70 to 250°C (-94 to 482°F)	20 L x 10 mm W (0.8 x 0.4")	PVC	2 m (6.6')	80°C (176°F)
OMYL-EU80-5			PVC	5 m (16.4')	80°C (176°F)
OMYL-EU120-2			PTFE	2 m (6.6')	120°C (248°F)
OMYL-EU120-5			PTFE	5 m (16.4')	120°C (248°F)

Magnetic Pt1000 RTD Sensors for Surface Temperature Measurement



Model No.	Steel Base with Built-In Magnet		Cable		
	Operating Temperature	Dimensions	Material	Length	Maximum Operating Temperature
OMYL-EUM80-2	-70 to 250 (-94 to 482°F)	25 L x 14 mm W (1 x 0.56")	PVC	2 m (6.6')	80°C (176°F)
OMYL-EUM80-5				5 m (16.4')	

**Fast Response
Air Temperature Sensors**



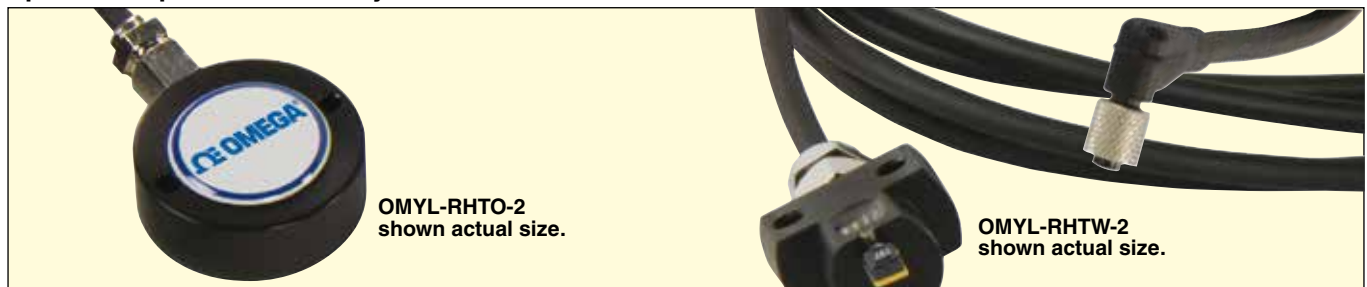
Model No.	Stainless Steel Probe		Cable		
	Operating Temperature	Dimensions	Material	Length	Maximum Operating Temperature
OMYL-FR80-2	-70 to 250°C (-94 to 482°F)	17 L x 4 mm dia (0.67 x 0.16")	PVC	2 m (6.6')	80°C (176°F)
OMYL-FR80-5			PVC	5 m (16.4')	
OMYL-FR120-2			PTFE	2 m (6.6')	120°C (248°F)
OMYL-FR120-5			PTFE	5 m (16.4')	

General Purpose Temperature/Humidity Sensors



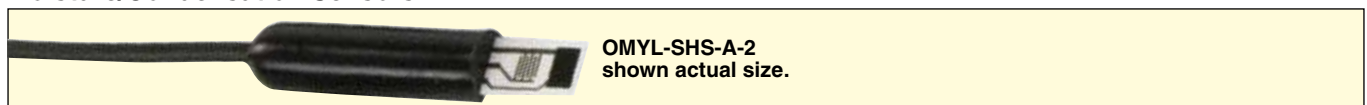
Model No.	Stainless Steel Temperature/Humidity Probe		Cable		
	Humidity Range (%RH)	Dimensions	Material	Length	Maximum Operating Temperature
OMYL-RHT80-2	0 to 100	35 L x 8 mm dia (1.4 x 0.32")	PVC	2 m (6.6')	80°C (176°F)
OMYL-RHT80-5			PVC	5 m (16.4')	
OMYL-RHT120-2			PTFE	2 m (6.6')	120°C (248°F)
OMYL-RHT120-5			PTFE	5 m (16.4')	
OMYL-RHT-XS80-2		20 L x 4 mm dia (0.8 x 0.16")	PVC	2 m (6.6')	80°C (176°F)
OMYL-RHT-XS80-5			PVC	5 m (16.4')	
OMYL-RHT-XS120-2			PTFE	2 m (6.6')	120°C (248°F)
OMYL-RHT-XS120-5			PTFE	5 m (16.4')	

Special Temperature/Humidity Sensors



Model No.	Stainless Steel Temperature/Humidity Probe			Cable		
	Application	Humidity Range (%RH)	Dimensions	Material	Length	Maximum Operating Temperature
OMYL-RHTO-2	Wall saturation and boundary levels	0 to 100	10 H x 30 mm dia (0.4 x 1.2")	PVC	2 m (6.6')	80°C (176°F)
OMYL-RHTO-5					5 m (16.4')	
OMYL-RHTW-2	Walls or confined spaces		45 L x 20 mm W (1.8 x 0.8")		2 m (6.6')	
OMYL-RHTW-5					5 m (16.4')	

Moisture/Condensation Sensors



Model No.	Probe			Cable		
	Application	Operating Temperature	Dimensions	Material	Length	Maximum Operating Temperature
OMYL-SHS-A-2	Condensation (incipient moisture)	0 to 50°C (32 to 122°F)	60 L x 10 mm W (1.7 x 0.4")	PVC	2 m (6.6')	50°C (122°F)
OMYL-SHS-A-5					5 m (16.4')	

To Order

Model No.	Description
OMYL-RH25	Temperature/humidity data logger (internal temperature/humidity sensors) with 2 external inputs, 100,000 readings
OMYL-RH25-4M	Temperature/humidity data logger (internal temperature/humidity sensors) with 2 external inputs, 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-RH25 temperature/humidity data logger with two external RTD inputs, 100,000 readings, one OMYL-CML80-2 general purpose PT1000 RTD temperature sensor, one OMYL-RHT80-2 general purpose temperature/humidity sensor and OCW-1, OMEGACARESM 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-BATT	Replacement 3V lithium battery (standard temperature range)
OMYL-BATT-HT	Replacement 3V lithium battery (high temperature range)