

Temperature Data Loggers with 1 or 2 External Inputs

OMYL-T11 and OMYL-T12



OMYL-T11

OMYL-T12

Both models shown actual size.

- ✓ Integral Temperature Sensor
- ✓ Plus One (OMYL-T11) or Two (OMYL-T12) External Inputs for Temperature (Pt100/Pt1000 RTD/Thermistor)
- ✓ Up to 4 Million Readings (Internal Memory Size)
- ✓ Up to 32 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-T11 and OMYL-T12 are temperature data loggers with internal temperature sensor that also accept external temperature inputs. These data loggers are available with standard memory of 100,000 readings (OMYL-T11, OMYL-T12) or expanded memory of 4 million readings (OMYL-T11-4M, OMYL-T12-4M).

The following inputs can be configured:

- Internal temperature
- External temperature (Pt100/Pt1000 RTD, Type U thermistor)

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).

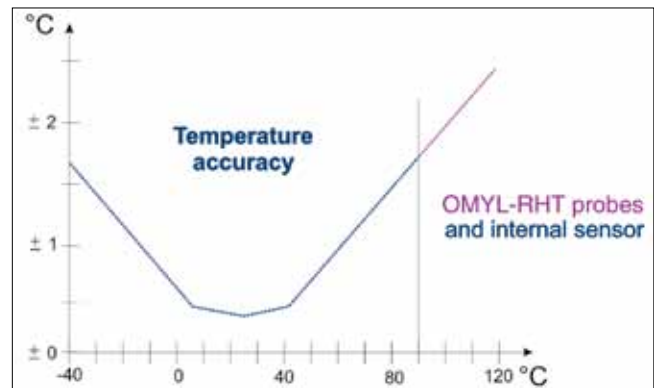
SPECIFICATIONS

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

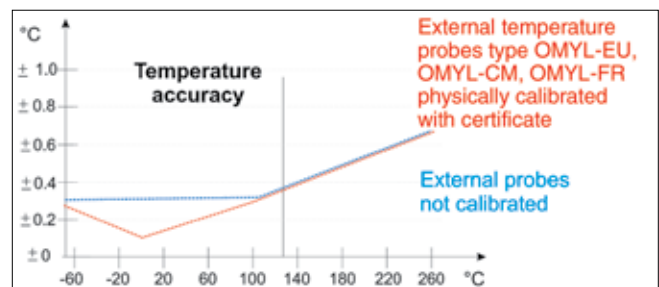
Number of Inputs

OMYL-T11: 1

OMYL-T12: 2

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 on previous page

Reading Rate: 1 second to 24 hours; 2 Hz, 4 Hz, 8 Hz, 16 Hz, 32 Hz in fast mode

Start Modes: Immediate start, delayed start

Memory Capacity

OMYL-T11, OMYL-T12: 100,000 readings

OMYL-T11-4M, OMYL-T12-4M: 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)

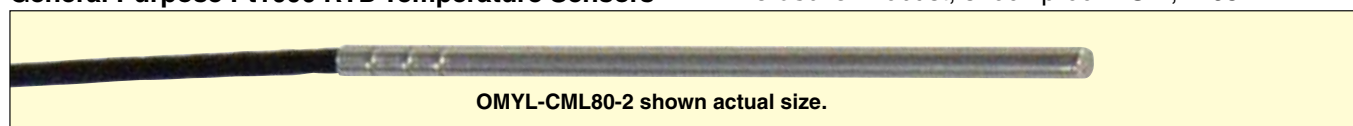
Operating Environment: -30 to 70°C (-22 to 158°F) with standard lithium battery; -40 to 90°C (-40 to 194°F) with optional high temperature lithium battery

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



Model No.	Stainless Steel Probe		Cable		
	Operating Temperature	Dimensions	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

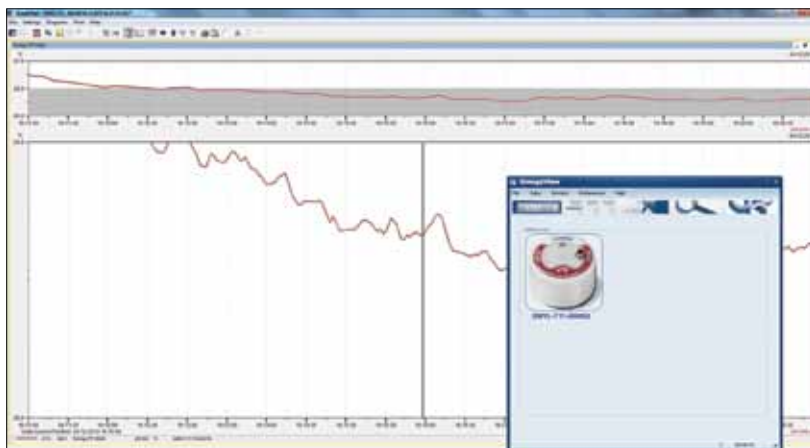


Model No.	Steel Base with Built-In Magnet		Cable		
	Operating Temperature	Dimensions	Material	Length	Maximum Operating Temperature
OMYL-EUM80-2	-70 to 250°C (-94 to 482°F)	25 L x 14 mm W (1 x 0.56")	PVC	2 m (6.6')	80°C (176°F)
OMYL-EUM80-5				5 m (16.4')	

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')	80°C (176°F)
OMYL-FR120-2			PTFE	2 m (6.6')	120°C (248°F)
OMYL-FR120-5			PTFE	5 m (16.4')	120°C (248°F)



OMYL-SOFT-PLUS graphical display software (sold separately).



OMYL-T11

Both models shown actual size.



OMYL-T12



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

To Order

Model No.	Description
OMYL-T11	Temperature data logger with one external input, 100,000 readings
OMYL-T12	Temperature data logger with two external inputs, 100,000 readings
OMYL-T11-4M	Temperature data logger with one external input, 4 million readings
OMYL-T12-4M	Temperature data logger with two 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-T11 temperature data logger with one external temperature input, 100,000 readings and **OCW-1**, OMEGACARESM extends standard 1-year warranty to a total of 2 years and one **OMYL-CML80-2** general purpose Pt100 RTD temperature sensor.

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)