OMYL-T10 and OMYL-T10E

- Integral Temperature Sensor
- OMYL-T10 Has Internal Temperature Sensor
- OMYL-T10E Has Temperature Sensor Fitted in Integral Probe
- 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-T10 and OMYL-T10E are robust temperature data loggers with IP65 enclosure. These data loggers are available with standard memory of 100,000 readings (OMYL-T10, OMYL-T10E) or expanded memory of 4 million readings (OMYL-T10-4M, OMYL-T10E-4M). The OMYL-T10/OMYL-T10-4M have an internal temperature sensor. The OMYL-T10E/OMYL-T10E-4M have the temperature sensor 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-T10/OMYL-T10-4M: Internal temperature sensor
- OMYL-T10E/OMYL-T10E-4M: Temperature sensor 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

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**Temperature Accuracy Chart**

- ±2°C at 0°C
- ±1°C at 10°C, 20°C, 30°C
- ±1°C at 40°C, 50°C
- ±1°C at 60°C

**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-T10, OMYL-T10E: 100,000 readings
- OMYL-T10-4M, OMYL-T10E-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
OMYL-T10E shown smaller than actual size. OMYL-SOFT-PLUS graphical display.

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

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>OMYL-T10</td>
<td>Temperature data logger with internal sensor, 100,000 readings</td>
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<tr>
<td>OMYL-T10-4M</td>
<td>Temperature data logger with internal sensor, 4 million readings</td>
</tr>
<tr>
<td>OMYL-T10E</td>
<td>Temperature data logger with integral probe, 100,000 readings</td>
</tr>
<tr>
<td>OMYL-T10E-4M</td>
<td>Temperature data logger with integral probe, 4 million readings</td>
</tr>
</tbody>
</table>

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-T10 temperature data logger with internal sensor, 100,000 readings and OCW-1, OMEGACARE™ extends standard 1-year warranty to a total of 2 years.

Accessories

<table>
<thead>
<tr>
<th>Model No.</th>
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<tbody>
<tr>
<td>OMYL-SOFT-PLUS</td>
<td>Plus version of the software for graphing and analyzing data files</td>
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<tr>
<td>OMYL-WH20</td>
<td>Wall mount holder for data logger (includes tamper evident lead seal)</td>
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<tr>
<td>OMYL-WSS0</td>
<td>Set of 50 tamper evident lead seals (50 wires and 50 seals)</td>
</tr>
<tr>
<td>OMYL-RS-OM</td>
<td>Radiation screen including offset mount for OMYL-T10E and OMYL-T10E-4M data loggers with integral probe (protects external probe from effects of direct sunlight and rainfall when used outdoors)</td>
</tr>
<tr>
<td>OMYL-BATT</td>
<td>Replacement 3V lithium battery (standard temperature range)</td>
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<tr>
<td>OMYL-BATT-HT</td>
<td>Replacement 3V lithium battery (high temperature range)</td>
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