**NEW**

## Thermocouple Data Loggers

## OMYL-T15 and OMYL-T16

**1 YEAR WARRANTY** CE

- ✔ Single Channel (OMYL-T15) or Dual Channel (OMYL-T16)
- ✔ User-Selectable for Type J, K, T, E, R, S, B, and N Thermocouples
- ✔ 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

OMYL-T15 with KTSS-HH thermocouple probe (sold separately), shown smaller than actual size.

OMYL-T16 shown smaller than actual size.

The OMYL-T15 single channel and OMYL-T16 dual channel thermocouple input data loggers are new low-cost battery powered thermocouple data loggers with integral reference junction which delivers accurate readings over a wide temperature range. These data loggers are fully user programmable for Types J, K, T, E, R, S, B and N thermocouples and are available with standard memory of 100,000 readings (OMYL-T15, OMYL-T16) or expanded memory of 4 million readings (OMYL-T15-4M, OMYL-T16-4M). These devices are programmable so that you can log data from either one or two channels.

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).

### Thermocouple Types and Ranges

| Type | Range | Resolution | Accuracy |
|------|-------|-----------|----------|
| J | -210 to 1200°C (-346 to 2192°F) | 0.022°C (0.039°F) | 0.6°C (1.08°F) |
| K | -200 to 1400°C (-328 to 2552°F) | 0.025°C (0.045°F) | 0.6°C (1.08°F) |
| T | -200 to 400°C (-328 to 752°F) | 0.009°C (0.016°F) | 0.6°C (1.08°F) |
| E | -200 to 1000°C (-328 to 1832°F) | 0.018°C (0.032°F) | 0.6°C (1.08°F) |
| R | -50 to 1750°C (-58 to 3182°F) | 0.028°C (0.050°F) | 0.6°C (1.08°F) |
| S | -50 to 1770°C (-58 to 3182°F) | 0.028°C (0.050°F) | 0.6°C (1.08°F) |
| B | 250 to 1820°C (482 to 3308°F) | 0.024°C (0.043°F) | 0.6°C (1.08°F) |
| N | -200 to 1300°C (-328 to 2372°F) | 0.023°C (0.041°F) | 0.6°C (1.08°F) |

OMYL-T16 shown actual size.
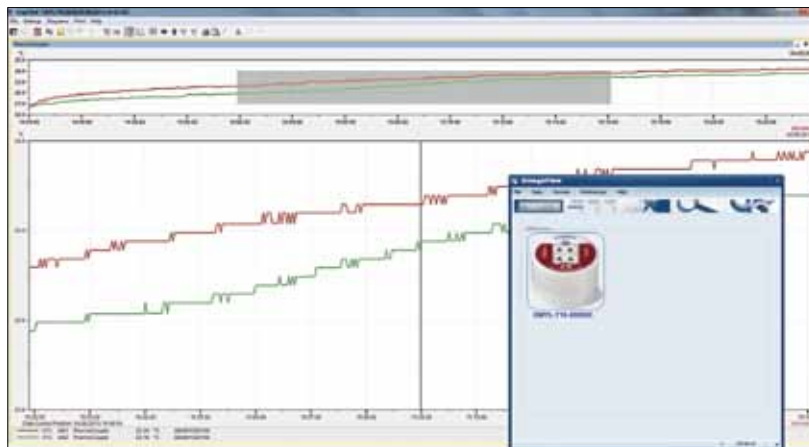


OMYL-SOFT-PLUS graphical interface.

## SPECIFICATIONS

**Number of Inputs**
   **OMYL-T15/OMYL-T15-4M:** Single channel
   **OMYL-T16/OMYL-T16-4M:** Dual channel

**Thermocouple Connection:** Female subminiature (SMP) connector

**Cold Junction Compensation:** Automatic

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

**Start Modes:** Immediate start, delayed start

**Memory Capacity**
   **OMYL-T15, OMYL-T16:** 100,000 readings
   **OMYL-T15-4M, OMYL-T16-4M:** 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:** 45 H x 50 dia mm (1.77 x 1.97")

**Weight:** 70 g (2.5 oz)

**Enclosure:** Robust, shock-proof POM, IP65



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

## To Order

| Model No. | Description |
|---|---|
| **OMYL-T15** | Single channel thermocouple input data logger, 100,000 readings |
| **OMYL-T15-4M** | Single channel thermocouple input data logger, 4 million readings |
| **OMYL-T16** | Dual channel thermocouple input data logger, 100,000 readings |
| **OMYL-T16-4M** | Dual channel thermocouple input data logger, 4 million readings |

### 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) |

*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-T15** single channel thermocouple input data logger, 100,000 readings and **OCW-1,** OMEGACARE^SM extends standard 1-year warranty to a total of 2 years.*