

## Process Voltage/Current Input Data Loggers

### OMYL-M33 and OMYL-M34



- ✔ Single Channel (OMYL-M33) or Dual Channel (OMYL-M34)
- ✔ Process Voltage and Current Measurements
- ✔ 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-M33 single channel and OMYL-M34 dual channel process voltage/current input data loggers are fully user programmable for 0 to 1V, 0 to 5V, 0 to 10V and 4 to 20 mA industry standard process input ranges. These data loggers are available with standard memory of 100,000 readings (OMYL-M33, OMYL-M34) or expanded memory of 4 million readings (OMYL-M33-4M, OMYL-M34-4M). Both models can be used for recording signals from a wide range of process transducers and transmitters. These devices are programmable so that you can log data from either one or two channels. Both models feature a 20 bit analog to digital converter giving a resolution of up to 15  $\mu$ V or 0.36  $\mu$ A.

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).



OMYL-M33 shown larger than actual size.

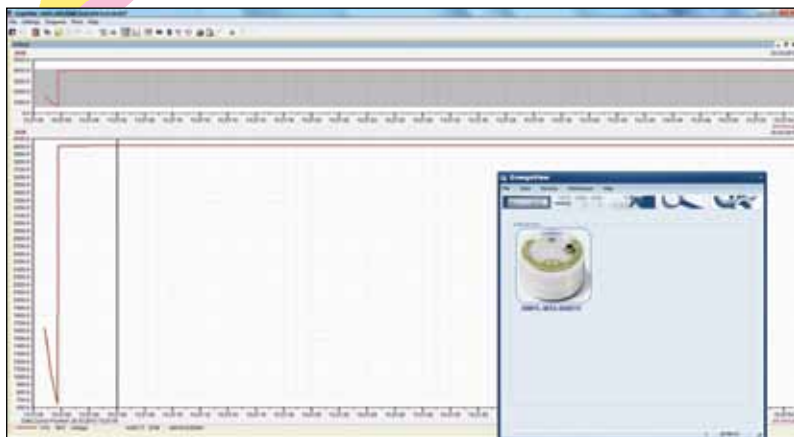


OMYL-M34 shown larger than actual size.

Input Ranges*					
Range	0 to 1V	0 to 2.5V	0 to 5V	0 to 10V	0 to 24 mA
Resolution ( $\mu$ V)	15.4	38.9	76.9	154	0.36 $\mu$ A
Input Impedance ( $M\Omega$ )	0.1	0.1	0.1	0.1	10 $\Omega$ shunt

\* Input ranges can be measured at 32 Hz. At 32 Hz the maximum resolution is ten times the above value.

**Note:** OMYL-CU cable with integrated potential divider is required in order to connect voltage signals from 1 to 10 V. Current signals require the OMYL-CI cable.



OMYL-SOFT-PLUS graphical display.



OMYL-M34 actual size with rear cover removed to show USB connection.

## SPECIFICATIONS

### Number of Inputs

**OMYL-M33/OMYL-M33-4M:** 1

**OMYL-M34/OMYL-M34-4M:** 2

### Input Cables

**OMYL-CU:** For voltage inputs greater than 1V

**OMYL-CS:** For voltage inputs from 0 to 1V

**OMYL-CI:** For current inputs

**Accuracy:** 0.1% of range

**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-M33, OMYL-M34:** 100,000 readings

**OMYL-M33-4M, OMYL-M34-4M:** 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 dia mm (1.18 x 1.97")

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

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

## To Order

Model No.	Description
OMYL-M33	Single channel process voltage/current input data logger, 100,000 readings
OMYL-M33-4M	Single channel process voltage/current input data logger, 4 million readings
OMYL-M34	Dual channel process voltage/current input data logger, 100,000 readings
OMYL-M34-4M	Dual channel process voltage/current input data logger, 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-M33** single channel process voltage/current input data logger, 100,000 readings and **OCW-1**, OMEGACARE<sup>SM</sup> extends standard 1-year warranty to a total of 2 years and **OMYL-CU** connection cable for voltages greater than 1V.

## Accessories

Model No.	Description
OMYL-SOFT-PLUS	Plus version of the software for graphing and analyzing data files
OMYL-CU	Connection cable for voltages greater than 1V
OMYL-CS	Connection cable for voltages from 0 to 1V
OMYL-CI	Connection cable for current measurement <24 mA
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)