

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 μ V or 0.36 μ 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.

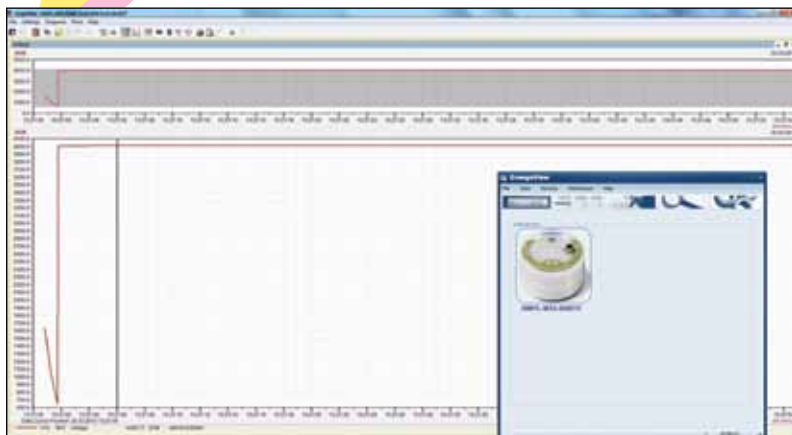


OMYL-M34 shown larger than actual size.

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