

Pulse Input Data Loggers

OMYL-M41 and OMYL-M42



- ✓ Single Pulse Input (OMYL-M41) or Dual Pulse Input (OMYL-M42) Channels
- ✓ Accepts Potential Free (Dry Contact) or Voltage Pulses
- ✓ Up to 4 Million Readings (Internal Memory Size)
- ✓ Shock Proof, IP65 Housing (Dust and Water Jet Proof)
- ✓ Up to 4 Years Battery Life

OMYL-M41 (one pulse input channel) and OMYL-M42 (two pulse input channels) data loggers are designed to measure potential-free (dry contact) pulses or voltage signals up to 3V using the included OMYL-CS input cable. With the optional OMYL-CP connection cable the logger can be used for measuring signals up to 24V. These data loggers are available with standard memory of 100,000 readings (OMYL-M41, OMYL-M42) or expanded memory of 4 million readings (OMYL-M41-4M, OMYL-M42-4M).

These devices are fully programmable allowing you to set the data logger to record on one or two channels. The incoming signal type (potential-free or voltage) can be set using the included software.

These data loggers are best suited for operation with counters, photoelectric sensors, revolution-counters, make contact elements, switches and sensors such as flow meters or energy consumption meters with pulse output. Both data loggers can also be integrated into the aerodynamic rain gauge OMYL-RG.

Once activated the data logger senses and records the number of pulses/contact closures that occur within adjacent "time bin" periods. The bin period is selectable from 1 second to over 24 hours. At the end of each bin period, the total number of pulses/counts within the bin period is recorded. The data logger then starts another bin period and continues until either the memory is full or the test period has ended.

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-M41

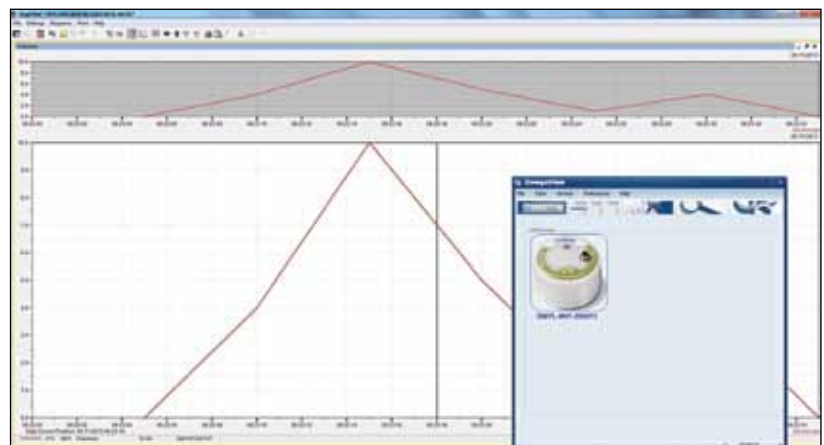


OMYL-M42

All models shown actual size.



OMYL-M42 shown with rear cover removed.



OMYL-SOFT-PLUS graphical display.

SPECIFICATIONS

Number of Pulse Input Channels

OMYL-M41/OMYL-M41-4M: 1

OMYL-M42/OMYL-M42-4M: 2

Signal Input: Potential-free (dry contact) signals and low level pulses < 3 Vdc can be measured with the included OMYL-CS input cable; higher voltage level pulses up to 24 Vdc can be measured with the optional OMYL-CP input cable)

Maximum Input Voltage: 24 Vdc

Measuring Range

Potential Free (Dry Contact) Pulses

Pulse Count: 0 to 65,000 pulses

Pulse Rate: 0 to 100 Hz

Voltage Pulses

Pulse Count: 0 to 65,000 pulses

Pulse Rate: 0 to 1300 Hz

Reading Rate: 1 second to 24 hours

Start Modes: Immediate start, delayed start

Memory Capacity

OMYL-M41/OMYL-M42: 100,000 readings

OMYL-M41-4M/OMYL-M42-4M: 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



OMYL-M42 shown actual size with rear cover removed to show USB connection.

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



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-M41	Single channel pulse input data logger, 100,000 readings
OMYL-M41-4M	Single channel pulse input data logger, 4 million readings
OMYL-M42	Dual channel pulse input data logger, 100,000 readings
OMYL-M42-4M	Dual channel pulse input data logger, 4 million readings

Comes complete with 3V lithium battery (standard temperature range), OMYL-CS pulse input connection cable for pulses <3V, 1.8 m (6') USB interface cable and OMYL-SOFT software, and operator's manual on USB stick.

Ordering Example: OMYL-M41 single channel pulse input data logger, 100,000 readings and OCW-1 OMEGACARESM extends standard 1-year warranty to a total of 2 years.

Accessories

Model No.	Description
OMYL-SOFT-PLUS	Plus version of the software for graphing and analyzing data files
OMYL-CS	Spare pulse input connection cable for pulses <3V (one included with data logger)
OMYL-CP	Pulse input connection cable for pulses between 3 to 24V
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-RG	Rain gauge
OMYL-BP	Base plate and fitting for rain gauge
OMYL-BATT	Replacement 3V lithium battery (standard temperature range)
OMYL-BATT-HT	Replacement 3V lithium battery (high temperature range)