

ME-USB-5+ - Count, Event and State Data logger

FEATURES

- Counter, state and event logger.
- Easy to set up and connect to your PC USB port for download of data. Data can then be graphed, printed and exported to other applications.
- Ideal for connection to flowmeters with a unity pulse output (e.g. electromagnetic flowmeters or 1 pulse/1 Litre MEHR flowmeters) for collection of flow volume/usage data.
- LED flash on event / state change.
- Replaceable internal Lithium battery.



This standalone data logger can record:

- record events (detecting an input and storing the time and date of occurrence);
- record state changes (similar to an 'event' but also recording when the input reverts back to normal); and
- count events (count the number of events that happen in a time period, without any individual event time or date information).

It is also possible to use volt free contacts. Instead of measuring an external voltage, the data logger applies a voltage across the screw terminals and detects when the input closes (i.e. a relay or microswitch).

The data logger is supplied with 'EasyLog USB' software on a USB drive, measurement leads terminated with crocodile clips and a long-life lithium battery which allows logging as described in table below. Functionality of the unit is indicated by flashing red and green LEDs, and the red LED can be set up to flash every time an event occurs.

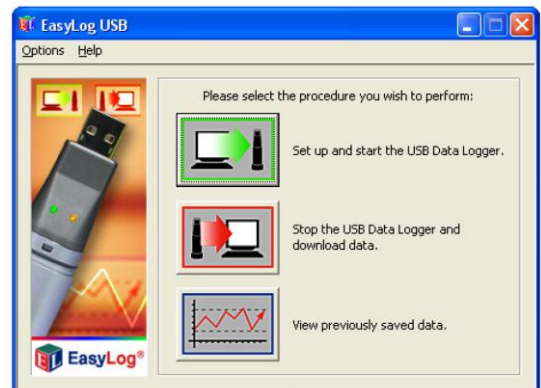
The user can programme:

- logger name
- logging interval for event count
- high and low alarms
- start date and start time

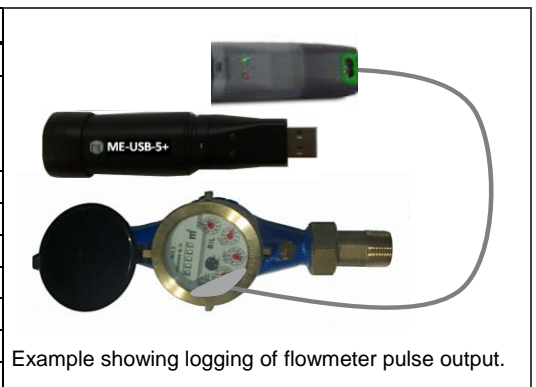
Events and state changes can be triggered by either

- a rising edge (a voltage going from low to high); or
- falling edge (a voltage going from high to low).

Logging Interval For Event Count	Record Time
1 sample every second	11.6 days
1 sample every 10 seconds	> 116 days
1 sample every minute	> 22 Months
1 sample every 30 minutes	> 56 Years



SPECIFICATION	
Storage (records)	1,000,000
Max. logging rate	5 / second for events 2 / second for state changes 100 / second for event counts
Pulse Input Voltage	3 - 24 VDC
'Volt free contacts' voltage	2.75 - 3.6 V
'Volt free contacts' current	35 μ A (typical)
Timing Accuracy	\pm 3 seconds per 24 hours
Max. Operating Temperature	80 $^{\circ}$ C
Battery : Tekcell SB-AA02P	1/2AA 3.6V Lithium
Typical Battery Life	1# year



Example showing logging of flowmeter pulse output.

depending on ambient temperature, logging rate, and use of alarm LED.