Multilog 2 WW

Multi-Input Data Logging & Telemetry Platform

Multilog 2 WW is a highly-versatile data logger, specifically designed to be compatible with a wide variety of HWM and third-party sensors including: RavenEye, MicroFlow-i, dBi or VEGAPULS.

Equipped with our advanced modem, Multilog 2 WW is capable of connecting via LTE-M or NBIoT with a 2G fallback or through 3G or 2G for dependable data telemetry and future-proofing in the rapidly evolving cellular landscape.

Housed in a robust IP68 plastic enclosure, the unit offers multiple inputs and switch outputs and is ideally suited to installation in environments where corrosion is a concern. Multilog 2 WW is a highly versatile solution for waste water monitoring applications where ATEX certification is not required.

Key Features and Benefits

- **Telemetry:** NBIoT/LTE-M based cellular communication as standard with fallback 2G capability

- **Serial and Analogue input options:** for connection to SonicSens 3 ultrasonic level sensor, internal or external pressure transducers, active/passive 4-20mA, voltage, digital pulses, Modbus, SDI12

- **4 sensor connections:** up to 8 channels

- **Alarm:** highly configurable alarms

- **Robust:** drop tested plastic housing and connectors to prevent corrosion in harsh environments

- **Statistical logging:** max, min, average and standard dev recording available

- **State Event recording:** for precise recording of events like float trigger or rain gauge

- **Bulgin antennas:** support improved signal strength - contact HWM for information of our wide-ranging options

- **Local data download:** 6 pin military plug connected to laptop or desktop PC

- **Fully waterproof:** the IP68 rating has been tested at 10m depth over a 24 hour period

- **Control outputs:** replicated pulse inputs or trigger on alarm, allows operation of third-party sensors, e.g. water samplers

- **Long-term monitoring:** up to 5 year battery life

- **External battery option:** external battery input to support accelerated dial-in or powering of third-party sensors

- **Remote upgrades:** firmware and programming changes made remotely for efficiency and cost-effectiveness

- **Secondary channel:** enables additional fast logging down to 25Hz

Applications

With multiple input capability, Multilog 2 WW is a highly effective, battery powered data logging/RTU solution. Typical applications include:

- Level, Velocity and Flow monitoring

- Water Quality Monitoring

- Control Outputs for third-party systems (e.g. water sampler)

- Modbus and SDI12 sensor telemetry

- External power options

Ideal for environmental and waste applications where ATEX certification is not required.

MONITORING ASSETS, DELIVERING DATA, BRINGING CONTROL

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Input Options

Serial	HWM SonicSens 3 ultrasonic level sensor and Leak Noise Sensor (LNS). Third party sensors using Modbus or SDI12 communication protocol.
Analogue	Internal pressure transducer. 0-20 bar / 0-200 meters head / 0-300psig, 0.1% repeatability / please note that the logger is calibrated to 10 bar as standard. (20 bar calibration must be specified at time of order if required) External pressure transducer (contact HMW for more details) Voltage (0-1V or 0-10V) Passive or active 4-20mA Temperature
Digital	Uni- or bi-directional pulse Up to 64 pulses per second

Communication

Local	Hi-speed USB for connection to hand held devices, Windows tablets, laptop or desktop PC
Internal Cellular Modem	Cellular modem supporting 2G/3G/ NBIoT/LTE-M (Cat-M1) with SMS backup where available - contact HWM for available options. 2G/3G/4G NBIoT can send data down to every 15 mins, with appropriate battery pack
Accelerated dial-in	Dial-in rate is increased if alarm situation is triggered. Logger can accelerate dial-in at alarm level for multiple applications - including SonicSens 3, Flow, Pressure and other alarmed sensors.

Features

Sample Frequency	Variable logger sample rate from 1s to 24hrs (this may affect battery life and communication costs)
Dimensions	239H x 319W x 100D (mm) 9.4" x 12.6" x 3.9"
Construction	PC/ABS plastic enclosure
Weight	Maximum: 3.8kg (8.4lb)
Operating Temp.	-20 to +60°C (-5 to +140°F)
Ingress Protection	IP68 submersible
Power	Internal Battery: 7.2V External Battery: 7.2V 15V
Memory	Standard recording: 2 million readings (optional up to 64 million readings and expandable HC SD card)
Fast Logging (secondary channel)	Secondary, fast channel supports sampling up to 25 Hz and record average. minimum, maximum, standard deviation or time interval between pulses (for data smoothing)
State Event Recording	Count and Event logging modes independent for both channels. In low flows this is available for precise recording of events like float trigger or rain gauge
Alarms	Multiple alarm options including Rate of Change, Profile, Minimum Night Flow and Threshold. Over 16 alarms per logger depending on channel configuration. Can be programmed to auto dial up to 8 telephone numbers on alarm. Multiple alarm destinations can be set in DataGate.

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