HWM Global

Innovations that keep critical resources flowing.

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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 wastewater monitoring applications where ATEX certification is not required.

Applications

With multiple input capability, Multilog 2 WW is a highly effective, battery powered data logging/RTU solution. 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 and External power options.

Multilog 2 WW is Ideal for environmental and waste applications where ATEX certification is not required.

Key Features

- **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, external pressure transducers, active/passive 4-20mA, voltage, digital pulses, Modbus, SDI-12.
- **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 recordings available.
- **State Event recording:** for precise recording of events like float trigger or rain gauge.
- **Bulgin antennas:** support improved signal strength - contact HWM Global for information fo our wide-ranging options.
- **Local data download:** 6 pin military plug connected to laptop or desktop PC.
- **Bulgin antennas:** support improved signal strength - contact HWM Global for information fo our wide-ranging options.
- **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 years battery life.
- **External battery option:** external battery input to support accelerated dial-in or powering of third-party sensors.
- **Remote upgrade:** firmware and programming changes made remotely for efficiency and cost-effectiveness.
- **Secondary channel:** enables additional fast logging down to 25Hz.

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Input Options

Serial: HWM Global SonicSens 3 ultrasonic level sensor. Third party sensors using Modbus or SDI12 communication protocol. I²C interface.

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 Global 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/NBIoT/LTE-M (Cat-M1). SMS onward forwarding service available - contact HWM Global for available options.

Multilog 2 WW 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.

Specifications

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: 10.8V.

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).

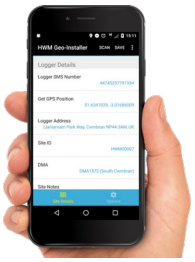
State Event Recording: Count and Event logging modes independent for both channels. In low flows this is available for precise recording of events like float trigger or rain gauge.

Alarms: Multiple alarm options including Rate of Change, Profile, Minimum Night Flow and Threshold.
Over 16 alarms per logger depending on channel configuration.
Multiple alarm destinations can be set in DataGate.

HWM Global Apps

Logger Installation Support

The HWM Global Deployment App is an installation tool that supports the quick and effective deployment of HWM Global manufactured data loggers. As well as recording installation details, the IDT App is used to test signal strength during installation.



ISO 9001 QUALITY MANAGEMENT
ISO 14001 ENVIRONMENTAL MANAGEMENT
ISO 27001 INFORMATION SECURITY MANAGEMENT
ISO 45001 HEALTH & SAFETY MANAGEMENT

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