HWM Global

Innovations that keep critical resources flowing.

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Multilog IS

Multi-Input, Multi-Application ATEX Telemetry Data Logger

Multilog IS is an intrinsically safe and highly-versatile telemetry data logging platform designed for compatibility with a wide variety of HWM Global and third-party sensors (including: MicroFlow-i, dBi or VEGAPULS) at the same time.

Multilog IS is capable of connecting via LTE-M or NBIoT with 2G fallback for dependable data telemetry and future-proofing in the rapidly evolving cellular landscape.

The unit offers multiple inputs and switch outputs and is ideally suited to installation in environments where corrosion is a concern. Bluetooth® connectivity allows for re-programming via a mobile app, making in-situ updates much easier and cost-effective.

Applications

With multiple input capability, Multilog IS 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 IS has been design-matched to numerous ATEX-rated sensors, ensuring ATEX certification for a wide variety of sensor configurations.

Key Features

- **Telemetry:** NBIoT/LTE-M based cellular communication as standard with fallback 2G capability.
- **Intrinsically Safe:** certified for use in Zone 0 hazardous areas (visit HWM Global website for certification details).
- **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.
- **Various sensor connections:** up to 16 channels.
- **Alarm:** highly configurable alarms.
- **Robust:** drop tested plastic housing and connectors to prevent corrosion in harsh environments.
- **External antennas:** support improved signal strength - contact HWM Global for information of our wide-ranging options.
- **Bluetooth® connectivity:** local Bluetooth® configuration through Deployment App.
- **Fully waterproof:** the IP68 rating has been tested at 10m depth over a 24 hour period.
- **Remote upgrades:** firmware and programming changes made remotely for efficiency and cost-effectiveness.
- **Control outputs:** 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.

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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:	External pressure transducer (contact HMW Global for more details). Voltage (0-1V or 0-10V). Passive or active 4-20mA. Temperature.
Digital:	Inputs for float switches, positional indicators, magnetic switches for state indication, outputs for the control of Water Samplers or externally controlled sensors.

Communication

Local:	Bluetooth® connectivity for configuration using our mobile app.
Internal Cellular Modem:	Cellular modem supporting 2G/NBIoT/LTE-M (Cat-M1). SMS onward forwarding service available - contact HWM Global for available options. Multilog IS 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 Sensors are powered by data logger or optional additional external battery packs.
Memory:	Standard recording: 1 million readings.
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.
Inputs:	Up to 16 channels for various sensor connections.

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.