HWM Global

Innovations that keep critical resources flowing.

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Multilog LX2

Powerful Fast Logging Data Logger

Multilog LX2 combines the freedom of battery power and intelligent advanced telemetry, delivering a versatile data logging solution capable of compatibility with a wide range of sensors and meters (including Modbus).

A powerful, fast logging solution, Multilog LX2 delivers precise, reliable data to keep your network running at peak performance without disrupting daily operations.

Applications

Purpose built to fit inside the shallowest Atplas box installations and other small chambers, MultiLog LX2 thrives in demanding environments and is ideal for a wide variety of applications including monitoring flow and/or pressure to assess demand, detecting leakage, and ensuring pressure conformance.

Additional power can be delivered to Multilog LX2 via connectivity to external battery packs or mains power.

Key Features

- **Pulse interval timing:** smooths reading set times of infrequent pulses e.g. minimum night flow.
- **Versatile logging:** up to 2x digital flow inputs and 1x analogue input (internal pressure, external pressure or 4-20mA).
- **Telemetry:** NBIoT LTE-based cellular communication as standard with fallback 2G capability.
- **Flexible:** up to 25Hz and window logging (on request).
- **Fast logging:** logging to 1 second - as standard.
- **Multiple recordings:** can record mixture of minimum, maximum, average or spot values in each sample interval.
- **Detailed readings:** true man and min flow and investigation of flow spikes through Pseudo logging.
- **Serial input:** for connection to digital meters, SonicSens 3 level sensor, PermaLog+ leak noise logger and Modbus sensors.
- **Long-term monitoring:** 5 year battery life (depending on settings and signal strength).
- **External antennas:** support improved signal strength (contact HWM Global for more information).
- **Fully waterproof:** the IP68 rating has been tested at 10m depth over a 24 hour period.
- **Alarms:** real-time alarms can be enabled for immediate response to network incidents.

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Input Options

Digital:	One bi-directional pulse for Flow. Two single-directional pulse inputs for Flow logging. Up to 64 pulses per second
Analogue:	Internal Pressure Transducer. External pressure. 4-20mA (optional). 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). (0-10 bar / 0-100 meters head / 0-150 psig option also available).
Serial Input:	Proprietary serial interface for SonicSens 3 ultrasonic level monitors, Permalog+ leak noise loggers, Serial meters etc. Modbus for third-party devices.

Communication

Local:	Infra-red reading head for connection to laptop, desktop PC or Windows tablet.
Internal Cellular Modem:	Cellular modem supporting 5G/NBIoT or 4G/LTE Cat-1.
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

Sampling Rate:	Variable sample rate 1s to 24hrs, accelerating on alarm.
Logger/ Site ID:	Readable factory set serial number in firmware.
Dimensions:	110H x 150W x 105D (mm) - 4.3" x 5.9" x 4.1"
Construction:	PC/ABS plastic enclosure.
Weight:	590g (1.3lb).
Operating Temp:	-20 to +60°C (-5 to +140°F).
Ingress Protection:	IP68 submersible.
Power:	Lithium Thionyl-Chloride, typical 5 years (depending on settings and signal condition). External power connection for battery box and third-party devices.
Memory:	Primary recording: 1 million readings (non-volatile memory)
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).
Pulse Interval Timings:	Count and Event logging modes independent for both recordings. Pulse Interval Timing helps to smooth readings (e.g. leakage) in low flows by counting the time between each pulse (event mode). This is available in addition to totalling the pulses (count mode).
Alarms:	Multiple alarm options including Rate of Change, Profile, Minimum Night Flow and Threshold. 16 alarms per logger. Can be programmed to auto dial up to 8 telephone numbers on alarm. Over 16 alarms per logger depending on channel configuration.

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.

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