CLEAN WATER

MultiLog 2
Data Logger

MultiLog 2 is a highly advanced and versatile multi-channel data logger with up to four connectors for monitoring any combination of digital or analogue signals. Benefitting from HWM's next generation data logging technology the platform and processing capability of the Multilog 2 adds many new features to its market leading predecessor.

MultiLog 2 is ideal for monitoring PRV flow and/or pressure in a district or zone to assess demand, leakage and conformance, and many other more specialised applications.

Data can be transmitted to HWM's secure DataGate 2 portal from which it can be viewed on any internet enabled device via the HWM Online website. Alternatively, the logger can send data directly to a customer specific server. Data can be downloaded locally via a convenient high-speed USB interface.

Key Features and Benefits

- **Telemetry:** Integral SMS/GSM/GPRS/3G Cellular Telemetry options

- **Serial input option:** For connection to digital meters, SonicSens level sensors, Modbus, SDI12, RS232, Badger/Sensus/Neptune serial meter interfaces.

- **4 channel logging**: 8 or 16 channels available on request

- **Fast logging:** 'Secondary channel' for logging to 1 second – as standard

- **Alarm:** Full alarm functionality.

- **Robust:** Rugged die cast aluminium case

- **True readings:** True max and min flow and investigation of pressure spikes

- **Pulse interval timing:** Smooths reading of infrequent pulses

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

- **External antenna:** High-gain antenna options to optimise signal

- **Local data download:** Via 10 Pin Military plug into Laptop, PC or PDA

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

- **Optional outputs:** Replicate inputs on trigger on alarm

Applications

Once installed, firmware upgrades and programming changes take place remotely. This environmentally friendly option helps reduce MultiLog's carbon footprint by removing the need for expensive and time consuming site visits. It also ensures that the logger can always be updated quickly and efficiently

MultiLog's innovative secondary channel feature enables additional fast logging down to 25Hz. Secondary logging can be triggered on time schedule and/or in response to an alarm condition bring triggered.

This is invaluable when more detailed investigation is required, such as pressure spikes and 'true' minimum night flow.

MONITORING ASSETS, DELIVERING DATA, BRINGING CONTROL

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Sensor Input options

Digital (Optional)	Uni- or bi-directional pulse Up to 64 pulses per second
Analogue (Optional)	Internal or External Pressure Transducer0-20 bar / 0-200 meters head / 0-300 psig, 0.1% repeatability (Logger is calibrated to 10bar as standard. 20bar calibration must be specified at time of order if required) Leak noise, 0-10V, 0-1V, temperature or 4-20 mA variants.
Serial Input (optional)	Proprietary serial interface for SonicSens ultrasonic level monitors and third party devices like Serial Meters using Modbus, SDI12 and RS232

Communication

Local	Hi-speed USB for connection to hand held devices, tablets, laptop, or desktop PC
Internal Cellular modem (Optional)	GPRS to HWM DataGate or customer specific server. SMS Back Up. SMS to HWM DataGate or customer server. Multiple messages per day.
	Quad band modem GPRS can send data down to every 15 mins, with appropriate battery pack 3G Compatible modem (optional)
Accelerated	Alarm events can be set for (all/most) Sensor input options as above.
Dial-in	Multiple applications – including SonicSens, Flow, Pressure, and other alarmed sensors.

Logger Features

Frequency	Variable logger sample rate from 1s to 24hrs (This may affect battery life and communications cost)
Logger/Site ID	Logger ID up to 7 alphanumeric characters, readable factory set serial number in firmware and multiple alphanumeric fields available on DataGate
Dimensions	257H x 129W x 77D mm (10.1"H x 5.0"W x 3.0"D).
Construction	Die-cast aluminum enclosure, powder-coat spray painted.
Weight	1.6 kg (3.5 lb).
Operating Temp	-20 to +60°C (-5 to +140°F)
Ingress protection	IP68 submersible
Power	Operational for 5 years under standard operating conditions Low battery alarm. External power connection for battery box & 3rd party devices.
Clock	On board 24 hour real time clock with date facility.
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)
Pulse Interval Timing	Count and Event logging modes independent for both channels. 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. Multiple SMS and email forwarding.

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We Empower Your Business