

# Intelligens

## Data Logger

Intelligens is a data logger that is specifically engineered for the rigours of Waste Water applications.

It is compatible with a number of sensors, depending on what type of data need to be acquired. The device itself is IP68, making it fully water proof under pressurised immersion.

Intelligens flexibility and water proof design, when combined with its safety features in explosive environments make it ideal for use in applications such as combined sewer overflows, general sewer monitoring, storm drains and storage tanks, as well as in flood warning systems.

### Key Features and Benefits

- **Safe for use in explosive environments:** Intrinsically safe ATEX/IEC Ex Zone 0.
- **Remote communications:** Data transmitted using GPRS & 3G telemetry (optional). Unit can also be remotely re-programmed.
- **Flexible sensor integration:** Intelligens is compatible with a wide variety of sensors & inputs.
- **Online data delivery and viewing:** Compatible with DataGate and HWM-Online.
- **Intelligent:** Unit comes with advanced data logging & alarm regimes.
- **Long term monitoring:** 5+ years' logger battery life.
- **Fully waterproof:** Unit is rated IP68, making it water proof when submerged.
- **Easy maintenance:** User replaceable SIM and battery, along with notifications of system health. (Non-ATEX applications only).
- **Anti-corrosion:** Unit is not susceptible to corrosion, including its communications antenna.
- **Upgradable:** Unit can be configured and its firmware upgraded remotely.



### Applications

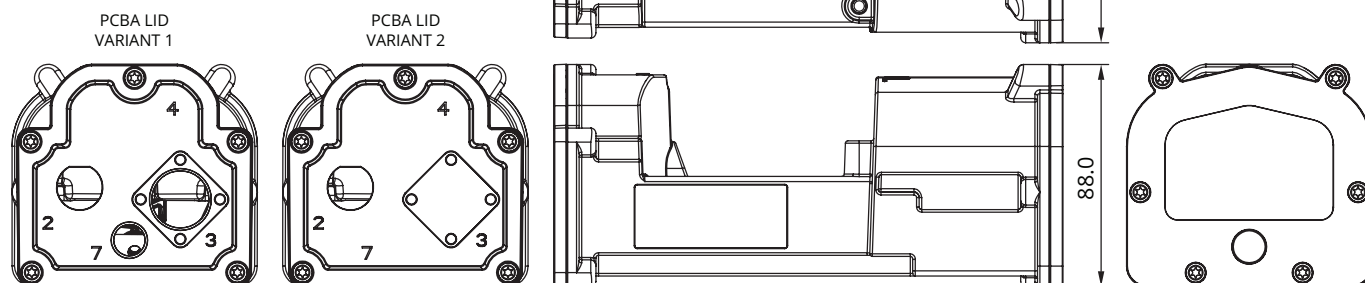
Intelligens is truly flexible, making it an ideal datalogger for hazardous utility network applications. With the ability to interface with many sensors, as well as optional external sensor input/batteries, Intelligens can be tailored to a specific user need.

Waste water applications include combined sewer overflows, rainfall monitoring, pump run time monitoring, irrigation and many others.

Intelligens offers additional flexibility, through installation of ESI and ESIB accessories, that allows for a suite of sensors to be deployed.

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### Sensor Input

mV	Example: Pressure sensor for level measurement
Serial Digital Interface	Example: Conductivity measurement
4- 20 mA	Example: Mems tilt transmitter, radar sensor
Digital	Example: Float switch, rain gauge

### Communication

Internal cellular modem	GPRS to HWM DataGate or customer specific server. SMS Backup Quad band modem Optional 3G Frequent Dial-In Available
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, Flow, Pressure, and other alarmed sensors.

### Control Output ports

Digital	2 independent configurable outputs.
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### Logger Features

Rating	ATEX/IEC certified to Zone 0
Memory	Up to 2 million readings. (Larger memory is available as a build specification)
Firmware	Safe field / local and remote upgradable Firmware
Sampling rate	Variable sample rate 1s to 24hrs, accelerating on alarm.
Alarms logger ID	Multiple Lower/Upper Limit, Min Flow, Rate Of Change, Channel Difference, In/Out of Band alarm types. Accelerated dial-in on alarm.
Clock	On board 24 hour synchronized real time clock with date facility
Secondary channel	Log fast data, average minimum, average maximum or event duration
Dimensions (mm)	200H x 97W x 88D
Weight	1kg
Operating temp	-20°C to +60°C (-5°F to +140°F)
Ingress protection	IP68
Power	User Replaceable battery pack operational for 5 years + under standard operating conditions, complete with low battery alarm. External Power optional available with a suitable ATEX certified power source
External power input	External battery pack for non-ATEX applications.



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### HWM Water Limited

Ty Coch House  
Llantarnam Park Way  
Cwmbran  
NP44 3AW  
United Kingdom

Tel: +44 (0) 1633 489 479  
Fax: +44 (0) 1633 877 857  
Email: [sales@hwm-water.com](mailto:sales@hwm-water.com)  
Web: [www.hwmglobal.com](http://www.hwmglobal.com)

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