Intelligens WW | ATEX Certified Data Logger

Intelligens WW is a data logger specifically for waste water applications, for use in hazardous environments such as Sewer overflow monitoring.

Intelligens WW is intrinsically safe for use in explosive environments, (ATEX zone 0) is an ideal logging solution for combined sewer overflows, general sewer monitoring, storm drains, storage tanks and flood warning systems.

Designed for long term deployment, with a 5 year battery life. Data is transmitted via its built in 4G/LTE cellular capability.

Intelligens WW is available with support for WITS 1.3.

Intelligens WW is a ATEX Certified datalogger that can be used to log data from a variety of sensors such as RadarSens Sewage level sensor and other pressure or level sensors.

Key Features and Benefits

- **Certification:** Certified for use in Zone 0 hazardous areas
- **Telemetry:** NB-IoT LTE-based cellular communication standard with fallback 2G capability
- **Two-way communication:** Unit can be remotely programmed; suitable for 'fit and forget' applications
- **Flexible sensor integration:** Intelligens is compatible with a wide variety of sensors and inputs
- **Online data delivery and viewing:** Compatible with DataGate and HWM Online
- **Intelligent:** Unit includes advanced data logging and alarm regimes
- **Long-term monitoring:** Typical 5+ year battery life
- **Fully waterproof:** Unit is rated IP68, making it waterproof when submerged
- **Easy maintenance:** User replaceable SIM and battery, along with notifications of system health
- **Anti-corrosion:** Plastic connectors ensure unit is not susceptible to corrosion
- **Upgradable:** Unit can be configured, and its firmware upgraded remotely
- **WITS 1.3 protocol:** Support for WITS 1.3 delivering direct integration with WITS SCADA systems

Applications

Intelligens WW is truly flexible, making it the ideal data logger for hazardous utility network applications. Compatibility with ESI and ESIB accessories means that a variety of different sensors can be deployed.

Intelligens transmits data through an integral modem with **2G, 3G, 4G, LTE-M (Cat-1) and other NB-IoT** options available.

Intrinsically safe for use in **explosive environments** (ATEX/IEC Ex Zone 0), Intelligens is designed to be both insusceptible to **corrosion and fully waterproof.**

Remote communications and a long-life battery make Intelligens perfectly suited to 'fit and forget' applications in remote or hard to access locations.

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Technical Specifications:

Logger Features	
Rating	ATEX/IEC certified to Zone 0
Memory	Up to 2 million readings
Firmware	Safe 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.
Secondary Channel	Log fast data, average minimum, average maximum or event duration
Dimensions (HxWxD)	200x97x88 mm
Weight	1kg
Operating Temp.	-20 to +60°C
Ingress Protection	IP68
Power	User replaceable battery pack operational for 5+ years under standard operating conditions, complete with low battery alarm. External power option available with a sustainable ATEX certified power source
Communication	
Internal Cellular Modem	Cellular modem supporting 2G/3G/4G/NBIoT/LTE-M (Cat-1) with SMS backup where 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 3, Flow, Pressure and other alarmed sensors
Sensor Input	
mV	Example: pressure sensor for level measurement
Serial Digital Interface	Modbus SDI12 and Rs232
4-20 mA	Example: mems tils transmitter, radar sensor
Digital	Example: float switch, rain gauge
Level Sensor	Ultrasonic level detection using HWM SonicSens 3
Control Output ports	
Digital	2 independent configurable outputs