

# Intelligens GNS

## ATEX Certified Data Logger

Intelligens GNS is the innovative, ATEX approved data logger designed specifically to monitor pressure points in gas networks.

Developed to reliably and securely transmit continuous data, Intelligens GNS ensures that maximum design pressures are not exceeded, without ever compromising a reliable supply.

Intelligens GNS can be used in combination with a variety of digital sensors, making it an effective gas network monitoring solution.

### Key Features and Benefits

- **Intrinsically safe:** certified for use in Zone 0 hazardous areas: Intertek ITS19ATEX205070X & IECEx ITS 19.0030X Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +60°C)
- **IGEM/GM/7A:** conforms to requirements set out in IGEM/GM/7A
- **Single, internal pressure transducer:** can be paired with additional external pressure sensors, allowing for accurate measurements across a broad range of pressure combinations
- **Telemetry:** NBloT LTE-based cellular communications with fallback 2G capability
- **Improved signal strength:** external high gain antenna
- **IP68:** unit is IP68 rated for use in challenging installations
- **Long-term monitoring:** typical 5+ year battery life
- **Advanced alarm dial-out regime:** alert to up to 16 specified telephone numbers
- **User-friendly:** PC based installation software, as well as user-replaceable SIMs
- **Flexible:** external power supply option



### Applications

The multiple input functionality of the Intelligens system means that it can be used in combination with digital sensors including pressure/temperature sensors and simple contact switches.

Intelligens transmits data through an integral modem with GPRS/2G, 4G, LTE-M (Cat-1) and other NBloT options available.

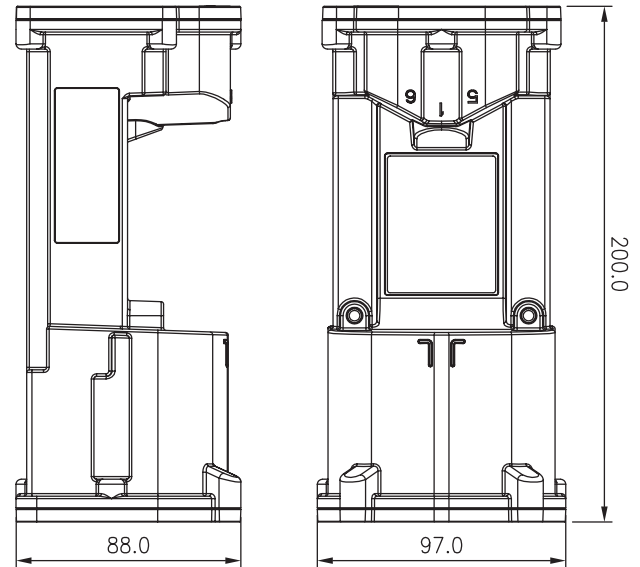
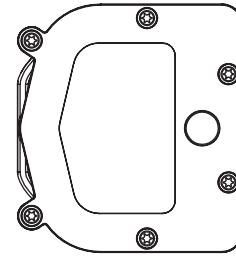
The additional Digital Extension Box provides additional functionality to Intelligens GNS by allowing the user to monitor a further 8 flow/status events such as slam-shut valves, filter switches, gas detector levels and door alarms.

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## ATEX Certified Data Logger

### Logger Features

Rating	ATEX/IEC certified to Zone 0
Memory	Up to 2 million readings
Analogue	Variable sample rate 1s to 24hrs
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 (mm)	200H x 97W x 88D
Weight	1kg
Operating temp.	-20 to +60°C (-5 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 option available with a sustainable ATEX certified power source



### Communication

Internal cellular modem	Cellular modem supporting 2G/3G/NB-IoT/LTE-M (Cat-1) with SMS backup where available - contact HWM for available options
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 Flow, Pressure and other alarmed sensors

### Sensor Input

Digital	Up to 4 user configurable pulse/status inputs Contact closure type or other pulse input Up to 128 pulses per second
Pressure External	100mBar to 100Bar 0.5% FSD available on request
Temperature	PT100 -40°C to 140°C (2/3/4 wire compatible)

### Control Output ports

Digital	2 independent configurable outputs
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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)

MONITORING ASSETS, DELIVERING DATA, BRINGING CONTROL