GAS NETWORKS

Intelligens GNS
Data Logger

The Intelligens GNS logger has been developed by HWM to measure network pressures and more specifically pressures at governor stations, it's a competitively priced logger that meets all of the data generation and management needs of your network.

The Intelligens GNS has been designed to reliably and securely transmit continuous data. The internal pressure sensor can be paired with an additional (or multiple) external pressure sensor allowing for accurate measurements across a broad range of pressure combinations.

The Intelligens GNS is designed for use at pressure reduction points across the network, ensuring that maximum design pressures are not exceeded without ever compromising a reliable supply.

Key Features and Benefits

- **Single, internal pressure transducer:**
  Can be paired with an additional external pressure sensor allowing for accurate measurements across a broad range of pressure combinations

- **Intrinsically safe:**
  ATEX approved (Zone 0)

- **Telemetry:**
  GPRS communication with SMS backup

- **Improved signal strength:**
  External high gain antenna

- **IP68:**
  Designed for deployment with long term submergence

- Accelerated dial in and alarm sampling

- **Long term monitoring:**
  5-year standard battery life, user replaceable

- **Large Memory Capacity:**
  2 million readings (larger sizes available on request)

- **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
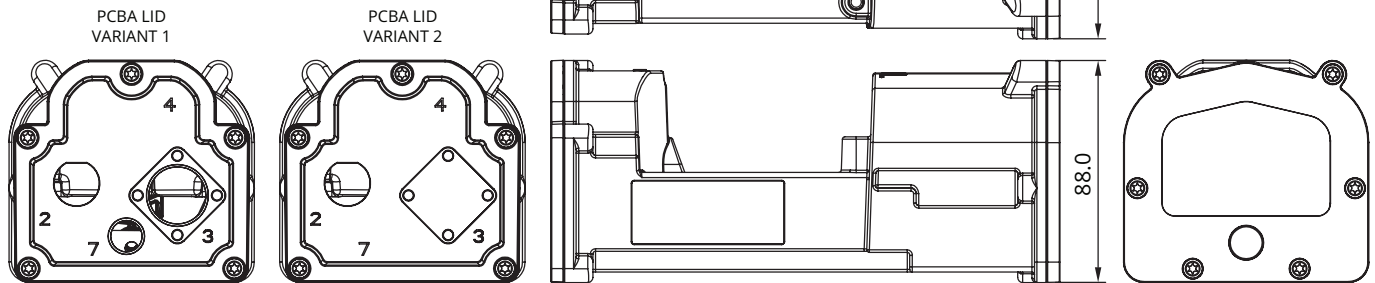
Applications

The dual input functionality of the system means it can be used in combination with digital sensors including pressure/temperature sensors and simple contact switches. Intelligens GNS has been designed to work safely and efficiently in hazardous areas and is certified ATEX/IEC to Zone 0. It is perfect for monitoring regulating stations and extremity points.

Together with its versatile telemetry options, robust construction and long battery life this makes Intelligens GNS well suited to "fit and forget" operations in remote or hard to access locations.

MONITORING ASSETS, DELIVERING DATA, BRINGING CONTROL

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Intelligens GNS
Data Logger

200.0

97.0

88.0

PCBA LID VARIANT 1

4
2
7
3

PCBA LID VARIANT 2

4
2
7
3

Sensor Input options

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)

Communication

| Internal cellular modem | GPRS to HWM DataGate or customer specific server. SMS Back Up* SMS to HWM DataGate or customer modem. Multiple messages per day. Quad band modem suitable for 850/900/1800/1900MHz bands. (3G option) |
| 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 |

Logger Features

Rating	ATEX/IEC certified to Zone 0
Memory	Primary recording 2 million readings (larger sizes available on request) Future proof in field local and remote upgradable software
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.
Clock	On board 24 hour synchronized real time clock with date facility
Secondary channel	Can be programmed to record either fast data, average minimum, average maximum or time interval between pulses (for data smoothing)
Internal Cellular modem	GPRS can send data down to every 5 mins (*please note this may affect battery life)
Dimensions (mm)	Tough ABS plastic enclosure 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 Lithium Thionyl-Chloride battery pack operational for 5 years + under standard operating conditions*, complete with low battery alarm. External power available with a suitable ATEX certified power source (option)

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