

Intelligens PRS

Data Logger

The Intelligens PRS logger has been developed by HWM to measure gas network pressures. A competitively priced logger that meets all of the data generation and management needs of your network.

Monitoring district pressures throughout the day is pivotal in maintaining the statutory minimum supply whilst ensuring the network pressure keeps loss to a minimum.

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.



Key Features and Benefits

- **Stable measurements:**
Single, internal pressure transducer
- **Intrinsically safe:**
ATEX approved (Zone 0)
- **GPRS communication:**
With SMS backup
- **Water resistant:**
IP68 environmental protection
- **Quick response:**
Accelerated dial in and alarm sampling
- **Long term monitoring:**
5-year standard battery life, user replaceable
- **Large Memory Capacity:**
256,000 readings
- **User friendly:**
User replaceable SIM
- **Power supply options:**
External power supply option
- **Remotely configurable:**
No need for costly onsite visits
- **Flexible:**
Multiple alarm options

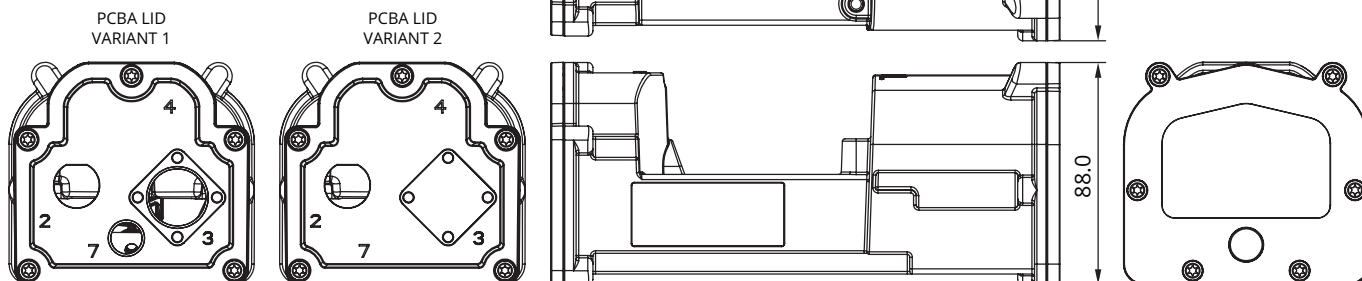
Applications

The Intelligens PRS is an ATEX Level 0 telemetry data logger which transmits data from the sensor via GPRS.

Two-way connectivity enables the unit to be reprogrammed remotely without the need for expensive site visits. New alarm conditions can trigger an alert to up to 16 specified telephone numbers, and the device can provide accelerated dial-in and sampling functionality during such events to make data rapidly available. This enables operators to respond promptly to changing levels.

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Sensor Input options

Pressure Internal (standard)	100mBar to 100Bar 0.15% FSD available on request
Digital (optional)	<ul style="list-style-type: none"> Up to 4 user configurable pulse/status inputs Contact closure type or other pulse input Up to 128 pulses per second
Temperature (optional)	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
Accelerated dial In	Dial-in rate is increased if alarm situation is triggered. Logger can accelerate dial-in at alarm level for multiple applications

Control Output ports

Digital (optional)	2 independent configurable outputs
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Logger Features

Rating	ATEX/IEC certified to Zone 0
Memory	Primary recording 256,000 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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MONITORING ASSETS, DELIVERING DATA, BRINGING CONTROL

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