

# Intelligens PRS

## ATEX Certified Data Logger

Intelligens PRS is an ATEX approved data logger developed to monitor district pressures, supporting the maintenance of a statutory minimum supply and keeping network pressure losses to a minimum.

Certified ATEX/IEC to Zone 0, Intelligens PRS is designed to work safely and efficiently in hazardous areas, making it well suited to monitoring regulating stations and extremity points.

Intelligens PRS, with its versatile telemetry options, is well suited to 'fit and forget' operations in remote or hard to access locations.



### 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 communication standard 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

Two-way connectivity enables the unit to be reprogrammed remotely, without the need for expensive site visits.

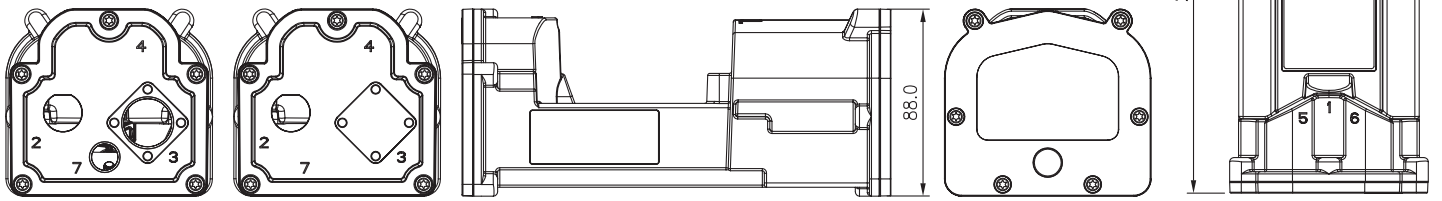
Intelligens transmits data through an integral modem with GPRS/2G, 4G, LTE-M (Cat-1) and other NBloT options available.

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.

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

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## ATEX Certified Data Logger



### 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
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 minutes (this may affect battery life)
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

### Sensor Input Options

Pressure External	100mBar to 100Bar 0.15% FSD available on request
Digital	Up to 4 user configurable pulse/status inputs  Contact closure type or other pulse input  Up to 128 pulses per second
Temperature	PT100 -40°C to 140°C (2/3/4 wire compatible)

### 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

### Control Output ports

Digital	2 independent configurable outputs
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MONITORING ASSETS, DELIVERING DATA, BRINGING CONTROL