

A cost effective, easily deployable, remote telemetry outstation providing a scalable universal solution for monitoring critical parameters in gas distribution networks.

Site data is recorded and transmitted over cellular networks. The GS3 provides a comprehensive and intrinsically safe, battery powered multi-application solution.

Key Features

- Build options available accommodating up to three integral pressure transducers and five digital inputs and temperature
- Applications include recording of regulator station parameters, gas temperature, flow, valve operation, filter blockage and level monitoring within potentially explosive environments
- Bi-directional communication and remote configuration
- Advanced channel profile and threshold alarms
- Facilitates pressure control when interfaced with Technolog's VAM module
- Low power design providing typically > 5 years battery life
- Automatic detection and switch-over from internal to an external antenna upon connection
- Intrinsically safe for Zone 0 deployment
- IP68 Protection against water ingress





Technical Specifications

Pressure Input	<p>Channel types: Pressure, temperature, pulse (flow) and switch closure</p> <p>Pressure: up to 3 channels, gauge pressure 3 bar and below, absolute pressure over 3 bar</p> <p>Pressure input: 0 - 75, 0 - 100 mbar; 0 - 3, 0 - 7, 0 - 10 bar (please contact Technolog regarding availability of alternative pressure ranges)</p> <p>Standard (8 bit) or high resolution (14 bit) pressure data logging configurable by user</p> <p>Accuracy: +/- 0.3% of Full-Scale Span (Hi Res)</p> <p>Pressure ports: Female ¼" BSP taper thread</p>
Electrical Input / Outputs Options	<p>Temperature: 1 channel. Input from external Pt-100 3-wire sensor</p> <p>Digital input: 5 channels. Monitors ON/OFF status of volt free contacts or records flow input</p> <p>Flow input: Pulses counted over and recorded at pre-set intervals. Maximum rate 25 pulses per second (Maximum count 16,000 pulses per logging interval)</p> <p>Control Outputs: 2. Support for connecting up to two Valve Actuation Modules (VAM)</p>
Serial Port	<p>Type: Full duplex, asynchronous serial port. Data rate: 1200, 2400, 4800, 9600 bps</p>
Modem	<p>Integral antenna: Optional external antenna</p> <p>Communications: Support for SMS and data communication over 2G and 3G cellular networks</p> <p>SIM: User replaceable SIM card</p>
Memory	<p>Size: 128k, allocated between channels as required (max 64k/channel)</p> <p>Data retention: 5 years (life of battery)</p>
Clock	<p>Type: Crystal controlled calendar clock with leap year adjustment</p> <p>Synchronisation: Option to synchronise clock to cellular network</p>
Supply	<p>Battery Life: Typical battery life >5 years dependent on mode of use</p> <ul style="list-style-type: none">– Internally powered by an approved, replaceable lithium battery pack– Internal back up cell maintains logging function and local communications
Recording	<p>Recording interval: Programmable between 1 second and 1 hour</p> <p>Logging method: Time based or event driven (digital inputs)</p> <p>Data storage: Rotating store or store until full</p>
Sampling	<ul style="list-style-type: none">– Point sampling or 1 second sampling over recurring interval and mean data storage (averaging)– Statistical recording (mean, max, min & standard deviation) on standard resolution pressure/analogue channels
Alarm Dial-Out	<ul style="list-style-type: none">– High / low alarms independently programmable on each channel– Continuous, time window and profile modes of operation– Option to transmit data more frequently after an alarm
Certification	<p>Intrinsically safe to Ex ia IIC T4 Ga (Ta -20 to +60C, certificate numbers Sira 11ATEX2368X / IECEx SIR 11.0162X</p>
Environmental	<p>Operating ambient temperature: -20°C to +50°C</p> <p>Protection classification: IP68</p>
Connectors	<p>Communications: M12, 4 pole, single keyway, stainless steel</p> <ul style="list-style-type: none">– Digital, flow, temperature and analogue input: 19-way to MIL-C-26482
Mechanical	<p>Dimensions (including carry handle): 280 x 155 x 100 mm (excluding external antenna)</p> <p>Weight: 1.500 kg</p>