

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

Multiple site parameters are monitored, recorded and transmitted over 2G (SMS/GPRS), NB-IoT and LTE Cat M1 networks, providing a comprehensive multi-application solution for the Gas Industry.

## Key Features

- Suitable for Regulator Stations, recording pressure, temperature, flow, valve operation and filter differential pressure
- Flexible communication build options supporting either 2G / NB-IoT / LTE Cat M1
- Build options for accommodating up to three integral pressure transducers, five digital (digital or analogue) and optional temperature
- Bi-directional communication and remote configuration
- Operable as a Low Pressure Point (LPP) for profiling control in conjunction with Gascore
- Supports clocked pressure control when interfaced with Technolog's VAM modules
- Internal temperature sensor for measuring and recording ambient temperature
- Advanced channel profile and threshold alarms
- Low power design providing typically > 5 year battery life
- External Antenna with automatic detection and switchover
- Tilt sensor to aid detection of movement
- Intrinsically safe for Zone 0 deployment





# Technical Specifications

<b>Pressure Input</b>	<b>Channels:</b> Up to 3 <b>Ranges:</b> 0 - 75, 0 - 100 mbar; 0 - 10, 0 - 300 KPa; 0 - 3, 0 - 7, 0 - 10 bar , 0 - 20 bar, 0 - 50 bar (contact Technolog regarding availability of alternative pressure ranges) <b>Resolution/Accuracy:</b> 8 bit, +/- 0.5% of Full-Scale Span <b>Pressure ports:</b> Female ¼” or 1/8” BSP taper thread
<b>Electrical Input / Output Build Options</b>	<b>Temperature channel:</b> 1 – Requires input from external Pt-100 3-wire sensor <b>Input channels:</b> 5 – Monitors ON/OFF status of volt free contacts – Monitors Pulse (Flow) inputs: Pulses counted over and recorded at pre-set intervals. Maximum rate 25 pulses per second (Maximum count 16,000 pulses per logging interval) – Analogue, subject to port parameters <b>Control Outputs:</b> 2 – Support for connecting up to two Valve Actuation Modules (VAM)
<b>Modem</b>	<b>Integral antenna:</b> Optional external antenna – Support for 2G, NB-IoT and LTE Cat M1 frequencies (subject to build option) <b>SIM:</b> User replaceable SIM card
<b>Data Transmission</b>	<b>Type:</b> 2G, NB-IoT and LTE Cat M1 networks (subject to build option) <b>Interval:</b> 1 min to 1 month at programmable date and time
<b>Memory</b>	<b>Size:</b> 512K, allocable between channels as required (max 64K per channel)
<b>Clock</b>	<b>Type:</b> Crystal controlled calendar clock with leap year adjustment – Option to synchronise to cellular network or server
<b>Supply</b>	<b>Battery Life:</b> Typical battery life 5 years dependent on mode of use – Internally powered by an approved, replaceable lithium battery pack – Internal back up cell maintains logging function and local communications
<b>Recording</b>	<b>Interval:</b> Programmable between 1 second and 1 hour <b>Digital inputs:</b> Time based or event driven <b>Data storage:</b> Rotating store or store until full
<b>Pressure Sampling</b>	– Point sampling mode: Data recorded at each recording interval – Average sampling mode: 1 second sampling over recurring interval with mean data storage – Statistical recording (mean, max, min & standard deviation) on standard resolution pressure/analogue channels
<b>Alarm Dial-Out</b>	– 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
<b>Certification</b>	– Intrinsically safe to Ex ia IIC T4 Ga (Ta -20 to +60C) / Zone 0 – Certificate numbers Sira 19ATEX2140X / IECEx SIR 19.0044X
<b>Environmental</b>	<b>Operating ambient temperature:</b> -20°C to +50°C <b>Protection classification:</b> IP66 (installed in accordance with manufacturers guidelines)
<b>Connectors</b>	<b>Communications:</b> M12, 4 pole, single keyway, stainless steel <b>Signal inputs:</b> Digital and temperature input via 19-way - Mil Spec compatible
<b>Mechanical</b>	<b>Dimensions (including handle/mounting bracket):</b> 285 x 159 x 106 mm (excluding external antenna) <b>Weight:</b> 1.500 kg