## Cello GS3



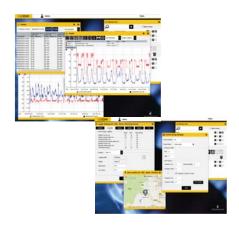
A cost effective, easily deployable, remote telemetry outstation providing a scalable universal solution for monitoring critical parameters in gas distribution networks.

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









Pressure Input	Channel types: Pressure, temperature, pulse (flow) and switch closure Pressure: up to 3 channels, gauge pressure 3 bar and below, absolute pressure over 3 bar Pressure input: 0 - 75, 0 - 100 mbar; 0 - 3, 0 - 7, 0 - 10 bar (please contact Technolog regarding availability of alternative pressure ranges) Standard (8 bit) or high resolution (14 bit) pressure data logging configurable by user Accuracy: +/- 0.3% of Full-Scale Span (Hi Res) Pressure ports: Female ¼" BSP taper thread
Electrical Input / Outputs Options	Temperature: 1 channel. Input from external Pt-100 3-wire sensor Digital input: 5 channels. Monitors ON/OFF status of volt free contacts or records flow input 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) Control Outputs: 2. Support for connecting up to two Valve Actuation Modules (VAM)
Serial Port	<b>Type:</b> Full duplex, asynchronous serial port. Data rate: 1200, 2400, 4800, 9600 bps
Modem	Integral antenna: Optional external antenna Communications: Support for SMS and data communication over 2G and 3G cellular networks SIM: User replaceable SIM card
Memory	Size: 128k, allocated between channels as required (max 64k/channel)  Data retention: 5 years (life of battery)
Clock	Type: Crystal controlled calendar clock with leap year adjustment Synchronisation: Option to synchronise clock to cellular network
Supply	Battery Life: 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
Recording	Recording interval: Programmable between 1 second and 1 hour Logging method: Time based or event driven (digital inputs) Data storage: Rotating store or store until full
Sampling	<ul> <li>Point sampling or 1 second sampling over recurring interval and mean data storage (averaging)</li> <li>Statistical recording (mean, max, min &amp; standard deviation) on standard resolution pressure/analogue channels</li> </ul>
Alarm Dial-Out	<ul> <li>High / low alarms independently programmable on each channel</li> <li>Continuous, time window and profile modes of operation</li> <li>Option to transmit data more frequently after an alarm</li> </ul>
Certification	Intrinsically safe to Ex ia IIC T4 Ga (Ta -20 to +60C, certificate numbers Sira 11ATEX2368X / IECEx SIR 11.0162X
Environmental	Operating ambient temperature: -20°C to +50°C Protection classification: IP68
Connectors	Communications: M12, 4 pole, single keyway, stainless steel - Digital, flow, temperature and analogue input: 19-way to MIL-C-26482
Mechanical	<b>Dimensions (including carry handle):</b> 280 x 155 x 100 mm (excluding external antenna) <b>Weight:</b> 1.500 kg