



TECHNOLOG



Cello GS2 GSM Data Logger - Pressure Regulator Station Monitoring

The Cello GS2 is an intrinsically safe (zone 0) GSM data logger for monitoring gas pressures, temperature, and digital inputs (e.g. slam shut operation, filter blockage and door operation). Commonly installed on critical points within the gas transmission/distribution networks such as pressure regulating stations and extremity points. Data is recorded and transmitted back via GPRS or SMS to a central data collection hub. In addition, alarms can be triggered and transmitted at any time if certain thresholds are breached. This method of communication offers a cost-effective remote monitoring solution and reduces the need for regular site visits.

- Wireless GSM Communications using SMS or GPRS
- Replaceable battery provides sufficient power for up to 5 years
- Pressure, temperature and flow recording options
- Compatible with Technolog's suite of software
- 128k Memory
- Sophisticated alarm dial out regime
- Internal or external quad band antenna
- Waterproof

Technical Specifications



Input	Channel types: pressure, temperature, pulse (flow) and switch closure Pressure: up to 3 channels, gauge pressure below 10bar, absolute pressure 10bar and above Pressure input: 0 - 75, 0 - 100 & 0 - 350 mbar; 0 - 1, 0 - 2, 0 - 3, 0 - 7, 0 - 10, 0 - 20, 0 - 50, 0 - 70 & 100 bar (other pressure ranges available upon request) Pressure port: female 1/4" BSP taper thread Temperature: 1 channel (optional). Input from external Pt-100 3-wire sensor Digital Input: 5 channels (optional). Monitors ON/OFF status of volt free contacts or records flow input Flow Input: 5 channels (optional). Pulses counted over and recorded at pre-set intervals. Maximum rate 10 pulses per second. Maximum count 16,000 per logging interval Accuracy/resolution: +/- 0.5% of range
Serial Port	Type: full duplex, asynchronous serial port. Data Rate: 1200, 2400, 4800, 9600 bps
GSM Modem	Frequency 900 MHz, 1800 MHz. 850/1900 MHz option available. Internal or External antenna
Data Storage	Type: solid state. 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 Accuracy: 100 seconds per month maximum error over operating temperature range Synchronisation: option to synchronise clock to GSM network
Supply	Type: internally powered by an approved replaceable lithium battery pack Life: typical battery life is 5 years depending on mode of use Internal back up cell maintains logging and local communications
Recording	Recording interval: programmable between 1 second and 1 hour Logging method: time based Data storage: rotating store or store until full
Sampling	Point sampling or 1 second sampling over recurring interval and mean data storage
Alarm Dial-Out	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	Intrinsically safe Ga Ex Ia IIC T4 (Ta -20°C - +60°C) SIRA 08ATEX2237X / IECEx SIR 08.0094X
Environmental	Operating temperature: -20°C to +50°C Protection Classification: IP68 submersible to 1 metre
Connectors	Communications: M12, 4 pole, single keyway, stainless steel Digital, flow and temperature input: 19-way MIL-C-264
Dimensions	Dimensions: 280 (including carry handle) x 155 x 100 mm (excluding antenna). Weight: 1.5 kg

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For further information contact: