



TECHNOLOG



Cello 4c - Compact SMS/GPRS Pressure and Flow Data Logger

- Fully integrated GSM/SMS/GPRS Data Logger
- Supports 'average' and 'statistical' recording
- Up to two flow and two pressure inputs
- Self-powered with internal or optional external battery for > 5 years
- 15 minute, 30 minute or 60 minute data transmission using frequent data mode
- Threshold and profile alarms
- Daily meter index transmission
- "Data on the web" option
- UK Water Industry Telemetry Standard (WITS) compatible
- Direct communication with Regulo PRV controller
- Compact design for installation in boundary boxes and hydrant chambers
- Configurable for special applications including step testing, meter sizing and consumption analysis

Cello is a family of GSM data logging devices for water, gas and electricity applications. over 250,000 of Cellos have been installed throughout the world and Cello has become an industry standard for remote monitoring.

Cello has a custom designed aerial to maximise GSM signal in underground locations. Cello can be connected to pulse output meters and/or pressure tapplings and records data at intervals between 1 second and 1 hour (user-programmable).



Cello has sophisticated alarm regimes for detecting and immediately signalling abnormal conditions. Cello supports high and low alarms on each channel. Additionally, profile alarms can be configured to follow daily data profiles. In the event of an alarm, Cello can be programmed to automatically send data more frequently.



Data sent by the Cello can be collected via several methods, including:

- Technolog's proprietary software installed onto a local host PC
- Technolog's resilient twin data centre
- Technolog's WaterCore web based software

Alarms from the Cello in the field can be forwarded to the relevant field support staff by text message or emails.

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Technical Specifications



Pressure Input	Input range: 0 - 100m (0 - 10 bar) or 0 - 200m (0 - 20 bar) +/- 0.5% accuracy +/- 0.5% resolution (optional +/-0.1%)
Digital inputs	Up to 2: Pulses counted over, and recorded at, preset intervals. Tamper / status and event recorded supported.
GSM Modem	Quad band: 900MHz, 1800 MHz / 850MHz, 1900MHz Integral antenna. Optional external antenna
Data transmission	SMS or GPRS. 15mins, 30mins, 1 hour, 1 day, 1 week or monthly at programmable date and time
Serial Port	Type: Full duplex, asynchronous Data rate: 1200, 2400, 4800, 9600 bps
Memory	Size: 128K, allocatable between channels as required (max 64K per channel) Type: Solid state, non-volatile
Clock	Type: Crystal controlled calendar clock with leap year adjustment Accuracy: 100 seconds per monthly maximum error over operating temperature range Synchronisation: Option to synchronise clock to GSM network
Supply	Internal lithium battery pack Optional high capacity external lithium battery pack, user replaceable Life: Typical battery life > 5 years depending on mode of use
Recording	Recording interval: programmable between 1 second and 1 hour Data storage: Rotating store or store until full Supports average and statistical recording (min, max, mean, standard deviation) over a defined logging interval
Alarm Dial-Out	High/low threshold and profile alarms independently configurable on each channel Option to update data on alarm and more frequently thereafter
Environmental	Operating ambient temperature: -20°C to +50°C Protection classification: IP68 (submersion at 1m depth for > 24 hours)
Mechanical	Diameter 149mm x 146.5mm high Weight 0.750kg

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DS5Y9000B & DMR n/a