



### 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

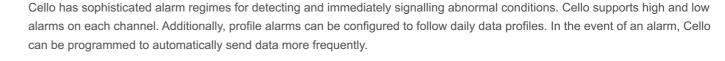
Cello is a family of GSM data logging devices for water, gasand electricity applications. over 250,000 of Cellos havebeen installed throughout the world and Cello has become an industry standard for remote monitoring.

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

















# 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.

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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For further information contact:

