Cello CP

TECHNOLOG

A remote fully integrated telemetry solution for monitoring levels of galvanic cathodic protection in gas distribution networks.

The Cello CP measures potential difference between pipe and a sacrificial anode / reference cell. Housed in a rugged, waterproof enclosure suitable for both above-ground and underground installations, helps ensures pipe integrity and that structures are adequately protected against corrosion.

Key Features

- Easily deployable

- Captures accurate data through a single negative voltage input

- Programmable GSM SMS / GPRS communications

- Self powered > 5 years

- Advanced channel profile and threshold alarms

- Provides current and historical data upon alarm event

- Rugged, portable and waterproof to IP68

- User Replaceable Battery

Technical Specifications

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Input	**Channel 1:** Voltage **Voltage input:** standard range 0 to -2.5 volts dc **Accuracy/resolution:** +/- 0.5% of range **Input impedance:** Greater than 1M ohms **Input Filter:** 50 Hz ac rejection. Measurement unaffected up to 10V ac rms
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:** Size: 64K
Clock	**Type:** Crystal controlled calendar clock with leap year adjustment **Synchronisation:** Option to synchronise clock to GSM network
Supply	**Type:** Internally powered by a replaceable lithium cell. **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 – 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)
Connectors	– Military specification, compatible with MIL-C-26482
Mechanical	**Dimensions:** 191mm x 140mm x 150mm **Weight:** 1 kg

CP Cello

Soil

Pipe

Permanent Reference Cell