Cello XT - Gas

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Delivering commercial and industrial Advanced Metering Infrastructure (AMI) solutions with exceptional data integrity

Meter reads, profile data and user consumption alarms are automatically transmitted with the NB-IoT and LTE Cat M1 networks to a host computer or data centre at regular intervals providing a cost effective AMI solution.

Key Features

- Meter readings calculated by totalising pulses corresponding to known volume

- Compatible with low frequency pulse output meters

- Two pulse input channels with two pulse input replication channels

- Detection and alarm of unauthorised meter tampering

- Flow profile data stored at predetermined intervals

- Programmable index read time

- Certified for use in Zone 0 hazardous locations

- User configurable logging and transmission rates

- Bluetooth comms

- Wireless setup app option

- User replaceable SIM card

- Low power design provides typically > 5 years battery life

- Protected and tested against water ingress to IP56

- Internal antenna with external antenna options

- User replaceable battery

Technical Specifications

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Electrical Inputs	– 2 x flow (pulse) and 2 tamper detect - 10 Hz max – 2 x Pulse input replication
Modem	**Antenna:** Internal (optional external variant) – NB-IoT and LTE Cat M1 frequencies **SIM:** User replaceable SIM card
Data Transmission	**Type:** NB-IoT and LTE Cat M1 networks
Memory	**Type:** Non-volatile – Data storage 8000 profile readings and 256 index readings
Clock	**Type:** Crystal controlled calendar clock with leap year adjustment – Synchronises clock to local network at regular intervals
Supply	**Life:** Typical battery life > 5 years (daily transmission) – Internally powered by a single, user replaceable lithium battery – Configuration and data retained during battery replacement
Recording	**Interval:** Programmable between 1 minute and 1 hour in defined increments **Data storage:** Rotating store
Alarm Dial-Out	– Programmable high and warning / low alarms – Alarm on tamper detection – Low battery alarm – Unlimited, server-side virtual alarms with user customisable logic
Certification	Certified for use in Zone 0 hazardous locations **Certificates:** CML 23UKEX2441X, Sira 23ATEX2440X & IECEx CML 23.0146X Ex ia IIC T4 (Tamb = -20°C to +60°C)
Environmental	**Operating ambient temperature:** -20°C to +60°C **Ingress protection classification:** IP56
Mechanical	**Dimensions (mm):** 199(h) x 127 (w) x 53 (d) **Weight:** With 5 cell battery: 0.740 kg Without battery: 0.590 kg