Cello XT

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Low cost, modular, multi-sensor wastewater monitor.

LTE data logger with multiple sensor combinations allowing the monitoring of sewer level, flow, temperature and infiltration as well as secondary spill verification channels.

Key Features

- 2 channels with various sensor combination options
- Compatible with the RS1 low cost radar and AS1 multi-sensor (angle, temperature, flow and spill verification)
- State input option available for float switches or CSA pressure sensor
- User configurable logging and transmission rates
- Multiple alarm levels available in the logger in addition to user definable virtual server-side alarms
- Bluetooth or cabled comms options
- Wireless setup app option
- User replaceable SIM card
- Low power design provides typically > 5 years battery life.
- Protected and tested against water ingress to IP68
- Internal antenna with external antenna options
- User replaceable battery with option for ATEX approved external batteries



Technical Specifications

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Electrical Inputs	– 2 x encoder channels (RS1 Radar, AS1 Angle and Flow, Microflow Velocity, Ultrasonic Level) – 2 x State input / tamper channel
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
Serial Port	**Type:** Full duplex, asynchronous
Memory	**Type:** Non-volatile – Data storage 2000 profile readings and 50 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) – Powered by either an internal or external, certified intrinsically safe, lithium battery pack – Both batteries are user replaceable in the field including in the hazardous area whilst the equipment is live – 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:** Certificates: CML 23UKEX2441X, Sira 23ATEX2440X & IECEx CML 23.0146X Ex ia IIC T4 Ga (Tamb = -20°C to +60°C)
Environmental	**Operating ambient temperature:** -20°C to +60°C **Ingress protection classification:** IP68
Mechanical	**Dimensions (mm):** 199(h) x 127 (w) x 53 (d) **Weight:** Encoder with internal battery pack: 0.600 kg Encoder without internal battery pack: 0.450 kg





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