Cello-M

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Intrinsically safe battery powered communication module for connection with Technolog data loggers and controllers. Powered by either ATEX external power packs or green energy harvesting solutions.

Cello-M is an innovative combined communication and power solution that utilises latest 4G LPWAN technologies for near real time data and network control. Additionally, the Cello-M passes through power to the connected data logger.

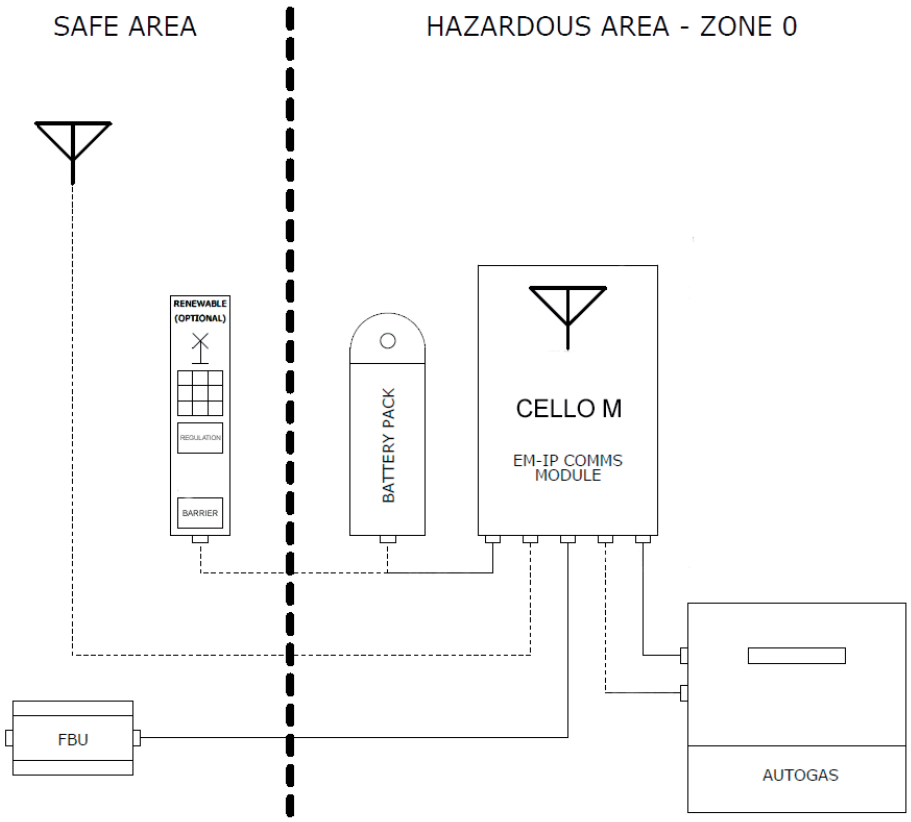
Key Features

- Utilises MQTT publish / subscribe message queuing solution
- Provides advanced communications integration
- Multiple channels transmitted (pressure, temperature, flow, status inputs and operation of differential pressure switches or slam open/close)
- Ultra low power
- User replaceable battery
- User replaceable Sim
- Certified for use in Zone 0 hazardous locations
- Compatible with Technolog's solar energy and battery technology
- Pass through power to connected dataloggers and controllers



Technical Specifications

Communication Protocol	**4G LPWAN (NBIoT/LTE-m)** **2G IP (MQTT)** **Speed:** 1200-9600 bps **GSM Communication Speed:** Availability of rate defined by access at a given site, dependent on location
Supply	**External (6/12cell):** 3.9v Typical battery life 5 years **External Solar:** Via Technolog Energy Harvesting Interface **Supply to VCM:** 6.8v
Environmental	**Operating ambient temperature:** -20°C to +50°C **Protection classification:** IP68 (1m depth @ 48 hours)
Intrinsic Safety	**Certified Intrinsically Safe:** Cello M: UKCA Ex / ATEX / IECEx IIC Zone 0 Battery Pack: UKCA Ex / ATEX / IECEx IIC Zone 0
Mechanical	**Cello M Dimensions (mm):** 270 x 170 x 91 **Weight:** 0.760 kg (without cable) 0.910 kg (including 2 m cable)



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