

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

<b>Communication Protocol</b>	<b>4G LPWAN (NBIoT/LTE-m)</b> <b>2G IP (MQTT)</b> <b>Speed:</b> 1200-9600 bps <b>GSM Communication Speed:</b> Availability of rate defined by access at a given site, dependent on location
<b>Supply</b>	<b>External (6/12cell):</b> 3.9v Typical battery life 5 years <b>External Solar:</b> Via Technolog Energy Harvesting Interface <b>Supply to VCM:</b> 6.8v
<b>Environmental</b>	<b>Operating ambient temperature:</b> -20°C to +50°C <b>Protection classification:</b> IP68 (1m depth @ 48 hours)
<b>Intrinsic Safety</b>	<b>Certified Intrinsically Safe:</b> Cello M: UKCA Ex / ATEX / IECEx IIC Zone 0 Battery Pack: UKCA Ex / ATEX / IECEx IIC Zone 0
<b>Mechanical</b>	<b>Cello M Dimensions (mm):</b> 270 x 170 x 91 <b>Weight:</b> TBC

