

DELIVERING FUTURE-PROOF TECHNOLOGY TO DISTRIBUTION NETWORKS

OCTOBER 2020



Whilst most low power M2M devices are currently taking advantage of 2G or 3G cellular communications for delivering site data, many global networks are starting to migrate to one of two emerging technologies: LTE Cat-M1 (Long Term Evolution for Machines) or NB-IoT (Narrowband IoT).

The buzzword, '5G' is a common term used to reflect the next generation of wireless technology, for products designed to support diverse deployment models, spectrum usage and device capabilities. NB-IoT and LTE Cat M1 being deployed today will be forming an integral part of 5G and coexist with other 5G components.



Whilst '5G' infrastructure is still in its early infancy in many countries, cellular IoT networks are being rolled out around the world at a record pace leading to many utilities looking to future-proof their next investment.

Customers have always been at the centre of Technolog's design philosophy creating leading edge products that utilise the next generation of communication technology. In the context of 5G Cellular IoT this means proactively embracing any new standards.

Technolog has over 35 years' experience in the design and manufacture of battery powered telemetry outstations, data

loggers and pressure control products for deployment in water and gas distribution networks that communicate over a wide range of communication networks.

One of Technolog's core telemetry products, the Cello 4s, is commonly used to satisfy applications for:

- Critical network pressure monitoring and distribution demand
- Remote monitoring and control of Pressure Reducing Valves
- Recording PRV stability
- Detecting High Speed pressure transients
- Industrial / commercial AMI
- Remote monitoring of reservoirs, sewage and effluent levels

The Cello 4s may be programmed to wake up and transmit recorded data over 2G, 3G or 5G cellular networks at user-programmable transmission frequencies i.e. from every 15 minutes to once per day; or when pre-programmed high / low / profile alarm thresholds are breached.

Technolog is one of the leading industrial users of cellular based technology with an installed base of over 600,000 monitoring devices.

If you require any further information or wish to discuss any specific applications, please do not hesitate in either contacting us directly or speaking with your local Technolog representative.