

## A remote telemetry outstation delivering a scalable machine to machine solution using a wireless and battery powered system

Multiple site parameters are monitored, recorded and transmitted over the latest LTE Cat M1 and NB IoT cellular networks. Provides a comprehensive, multi-application solution for water utilities.

- Multiple build options available. One or two pressure inputs, Up to 8 analog/digital inputs. Ability to provide loop power.
- Easy to setup using a direct cable interface or Technolog's optional WiFi communication interface.
- Proven bidirectional Cello communication with automatic gap filling ensuring high level data reliability and supporting remote product configuration.
- Remote set-up, monitoring and control through a easy to use web based Utilicore platform.
- Advanced channel profile and threshold alarms.
- High accuracy battery monitoring, optimizing maintenance and asset management programs.
- Integral movement detection aiding preventative maintenance routines, asset tracking and enhanced data integrity critical for reporting.
- Low power design provides typically > 5 years battery life. Optional external power units with always on capability.
- Water pressure measurements included on all pressure channels.
- Rugged, portable and waterproof to IP68 standards.
- WITS compatible and verified.





<b>Pressure Input</b>	Input range: 0-145 PSI (0-10 Bar) or 0-300 PSI (0-20 Bar) Programmable: +/- 0.5% or +/- 0.1% resolution
<b>Electrical Inputs</b>	Configurable channel strategies (subject to model): Voltage, event, tamper / status, count, frequency and encoder <b>Digital:</b> Pulses counted over, and recorded at, preset intervals. Tamper/status and event time supported. <b>Frequency input:</b> Switch closures or logic pulses, maximum frequency 16 kHz, programmable sampling period. <b>Analog:</b> 0-2.5V 0.01V resolution as standard, <1mV with 8/7-1 Channel option. 12 V loop power available on 2 channels on 8/7-1 models.
<b>GSM Modem</b>	<b>Integral antenna:</b> Optional external antenna - Support for LTE Cat M1 and NB IoT, 2G fallback if available. <b>SIM:</b> user replaceable SIM card.
<b>Data Transmission</b>	<b>Type:</b> LTE Cat M1 and NB IoT, 2G fallback if available. <b>Interval:</b> 1 min to 1 month at programmable date and time - WITS option (factory configured) - External power recommended for intervals less than 4 hours
<b>Serial Port</b>	<b>Type:</b> Full duplex, asynchronous <b>Data Rate:</b> 1200 to 38400 bps
<b>Memory</b>	<b>Size:</b> 512K allocable between channels as required (max 64K per channel) <b>Type:</b> solid state, non-volatile
<b>Clock</b>	<b>Type:</b> Crystal controlled calendar clock with leap year adjustment - Option to synchronize clock to local network at regular intervals
<b>Supply</b>	<b>Life:</b> Typical battery life > 5 years depending on mode of use - User replaceable internal Lithium battery pack - Optional high capacity external lithium battery pack, user replaceable
<b>Recording</b>	<b>Interval:</b> programmable between 1 second and 1 hour <b>Data storage:</b> Rotating store and store till full - Supports average and statistical recording of pressure (min, max, mean, standard deviation) or logging interval. Full support of transients recording strategy.
<b>Alarm Dial-Out</b>	- 4 threshold and profile alarms, with hysteresis and persistence, independently configurable on each channel - Option to update data on alarm and more frequently thereafter
<b>Environmental</b>	<b>Operating ambient Temperature:</b> -4° F to 122° F or -20° C to +50° C <b>Ingress protection classification:</b> IP68 (submersion at 1m depth for >24 hours)
<b>Mechanical</b>	<b>Dimensions (in):</b> 5 7/8" x 5 3/4" mm: 149 x 146.5 (h) <b>Weight:</b> 1.65 lb / 0.750 kg

