

Telstra Captis Pulse Lite



Connect the Telstra Captis Pulse Lite to a compatible sensor (sold separately) to measure and monitor specific environments#.

The Telstra Captis Pulse Lite opens up a new world of accessibility when it comes to remote measurement.

Telstra Captis Pulse Lite has been developed to fill niche measurement requirements across a broad range of applications and remote locations within the LTE-M and NB-IoT coverage areas on the Telstra IoT network.

It is designed to measure a range of parameters; be small in size; run for extended periods of time; and is certified for use within LTE-M and NB-IoT coverage areas on the Telstra IoT network.



The device is only available with an internal antenna. It is housed in an IP68 rated enclosure.

Features

- CAT-M1 and NB-IoT device for use within LTE-M and NB-IoT coverage areas on the Telstra IoT Network
- Embedded SIM card
- Able to remotely configure recording interval, calibration and data transmission interval
- Able to receive firmware upgrades and device configuration over the air
- Measure and monitor meter pulse input and any tampering
- No external power required
- Low profile for unobtrusive installation
- Able to be installed in-ground up to 600mm
- 5 years device warranty
- 5 year battery warranty* (expected battery life of up to 10 years**)
- Reduces the need for manual reading
- Ideal for leak detection
- Ideal for water usage studies
- Designed and assembled in Australia
- Available exclusively through Telstra

Security Features

- Over the air firmware downloads over SSL
- AES encrypted firmware image file
- Data transferred over encrypted connection, SSL/TLS
- Non-removable data storage
- Hardware encryption of parameters and credentials
- Physical device tamper detection, tamper switch
- Missing/damaged sensor alert

Telstra Captis Alarming / Fast Logging

The “fast log” feature provides increased data logging based on certain alarm conditions. The Telstra Captis Pulse Lite will swap the normal log interval and send interval to a second set of higher frequency logging* and sending intervals on a configurable alarm value - returning to the normal logging interval and send interval when that state has cleared.

* Battery warranty is dependent on a signal strength of -96dB (RSRP) and operating temperatures of -5°C to +45°C, with hourly reads and daily uploads to the network, up to 5KB per day within the LTE-M and NB-IoT coverage on the Telstra IoT network.

** Battery life is dependent on a signal strength of -90dB (RSRP) and operating temperatures of -5°C to +45°C, with hourly reads and daily uploads to the network, up to 5KB per day within the LTE-M and NB-IoT coverage on the Telstra IoT network.

Telstra Captis Pulse Lite requires a compatible sensor (sold separately)

Applications (Compatible sensors needs to be purchased separately)

Water / Wastewater	Water metering; Sewer riser high level; Tank/dam high level
Intelligent Transport Systems	Vehicle traffic counter
Oil & Gas	Tank high level switches; Door/gate entry
Environment	Weather stations; Rain gauge; Air quality; Temperature/humidity; Dust monitoring
Agriculture	Tank/dam high level switches; Water metering
Smart Cities	Door/gate entry; Water metering; Any on/off signals

Specifications

Applications	Meter reading
LTE	LTE-M/NB-IoT
Cellular Module	Telit ME910C
Battery Voltage	3.6V
Battery Type	“D” Size Lithium
Battery Life	Up to 10 years**
Digital Inputs	2
Protocols	MQTT, MQTTS, CSV
Platform Supported	Cumulocity and other compatible platforms
GPS	No
Unit Dimensions	94 x 75 x 50 mm
Antenna	Internal
IP Rating	IP 68^^
Measurements - Max	1 per 10 seconds^^^
Send Intervals - Max	1 per 5 minutes^^^

^ Dimensions may differ in actual product

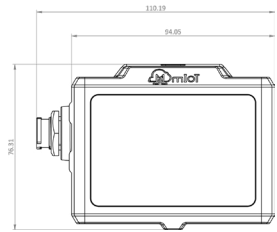
^^ Capable of constant submersion upto 1.5m upto 24 hours

^^^ Has direct impact on battery life

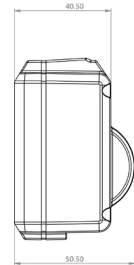
For more info visit telstra.com/environmentmonitoring

Check your coverage at telstra.com/business-enterprise/solutions/internet-of-things/iot-coverage

Dimensions



Telstra Captis Pulse Lite Front View



Telstra Captis Pulse Lite Side View

Inputs

Digital Inputs: operates in low power mode. Pulse Input (up to 500Hz) and broken sensor/wire input.

Power Modes

The Telstra Captis Pulse Lite has several power modes during operation:

Sleep: 7 -20uA: Pulse 1 input remains operational.

Measure: 10 to 20mA, wake occurs at the beginning of every logging interval.

Send: 0 - 500mA - Unit wakes for transfer of data to the cloud platform.