SigSense

Telemetry for non-urban water metering made simple

Approved Datalogging and Telemetry devices under the NSW Non-Urban Water Metering Framework.

- Guaranteed for 5000 transmissions / 5 years
- Only approved LID operating on the low-cost ultra-high coverage Telstra NB-IoT network
- Suitable for outdoor installation
- Shipped pre-configured and tested to meet specific meter configuration
- IP68 rated enclosure
- External aerial to maximize range (sold separately)

SigSense is the authorised Telstra reseller of the Captis for the NSW DAS Non-urban water metering project.

Captis Pulse

- Suitable for hourly logging daily transmits to the DAS
- Suitable for Pulse-type meters

Compatible pattern approved meters:

Aquamaster3; Siemens MAG 8000CT; Euromag MUT 2200 EL; Sensus WP-Dynamic; Krohne Waterflux 3070; Aquamonix / Pentair I500; Arad Octave; ABB AquaMaster4; Krohne Optiflux 2300C; Siemens MAG5100W; Arad WSTsb

Find local DQP supplier here

www.sigsense.com.au/where-to-buy

Features

Captis Features

- Cellular connected (LTE–M1, NB1)
- Embedded SIM card
- Remotely configurable: over the air recording interval, offset, scaling, factor, sending interval
- Device and cellular module upgrade over the air
- Run all inputs simultaneously
- No external power or data connection required
- Able to be installed in-ground
- Battery life of 5,000 Transmissions
- 5 year product warranty
- Designed & Assembled in Australia

Security Features

- Firmware Upgrades
- Over the air firmware downloads over SSL
- AES encrypted firmware image file
- Data transferred over encrypted connection, SSL/TLS
- Physical device tamper detect
- Non-removable data storage
- Hardware encryption of parameters and credentials

Alarming & Fast Logging

Alarming/Fast Logging

The Captis has on board capabilities for handling process alarms and higher resolution logging, based on measured process values. This feature ensures that critical alarm conditions are never missed and users are informed.

Fast Log/Send

The “fast log” feature provides higher resolution data logging based on certain alarm conditions. The Captis 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.

Process Alarms

The alarms will trigger based on the process data values

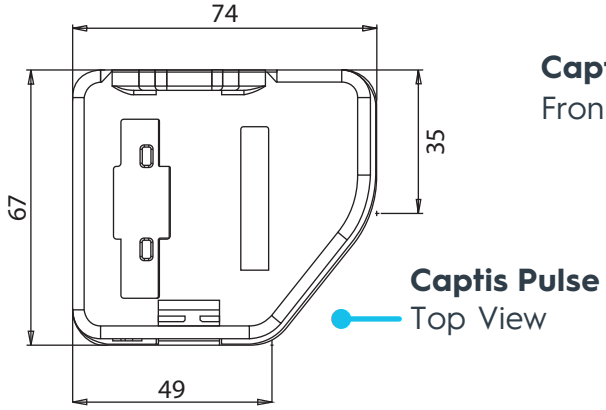
at the time of logging, the alarm trigger contains a setpoint and a hysteresis value. The alarming can happen on process values above the setpoint+hysteresis or below setpoint-hysteresis, or on both conditions.

Connection can be made to the client’s selected platform on an alarm state, where the SMS and email alert functionality can be actioned.

Cable Cut Loopback Detection

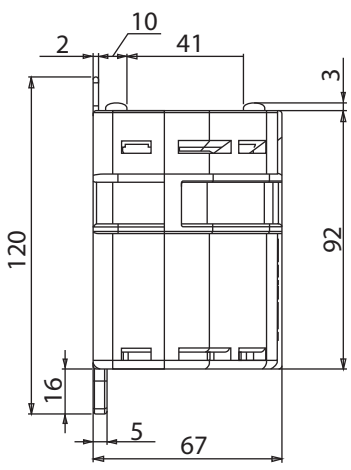
Captis supports a loopback cable cut detection if required for identifying physical tamper. It is recommended that this is performed as close as possible to the sensor to ensure the cable cut functionality is effective.

Dimensions



Captis Pulse
Top View

Captis Pulse
Front View



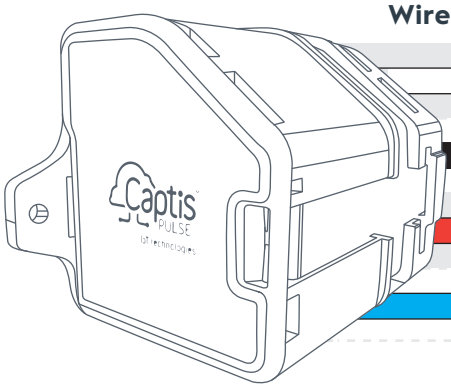
SigSense

PRODUCT DATA SHEET

Specifications

Battery Voltage	3.6V
Battery Capacity	19000 mA
Battery Type	"D" Size Non-Recargeable $LiSoCl_2$
Battery Life	5,000 Transmissions Based on average signal strength of -96dB (RSRP)
Product Warranty	5 year warranty
Pulse/Digital Inputs (2)	Switch & Pulse Modes -0.3v to 3.5v Max Pulse Rate: 10Hz
Protocols	MQTT, MQTTS
Platform Supported	eagle.io©
GPS	Yes
Antenna	Internal/External
Minimum Cable Bend Radius	85 mm
IP Rating	IP 68
Measurements – Min	10 seconds
Send Intervals – Min	5 minutes
Operating Temperature	-20°C to 50°C
Unit Dimensions	75 x 80 x 50 mm

Wire Colours & Function



Wire Colour	Function
White	Digital Input 1 +
Black	Digital Input 1 –
Red	Digital Input 2 +
Blue	Digital Input 2 –

GET IN TOUCH

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