

CAPTIS MULTI VERSION 1.2

With multiple industry standard sensor interfaces, connect the appropriate sensor for your use case and receive valuable insights into your assets and infrastructure.

Features

- Sensor agnostic: connect to most off-the-shelf sensor to the industry standard interfaces and protocols
- Cellular connected (LTE-M1, NB1, NB2)
- Embedded SIM card
- Remotely configurable (COTA)
- Firmware upgrades over-the-air (FOTA)
- Firmware downloads over SSL
- AES encrypted firmware image file
- Data transferred over encrypted connection (SSL/TLS)
- Tamper protection
- Non-removable data storage
- Hardware encryption of parameters and credentials
- Able to be installed in harsh environments (IP68)
- Battery powered
- 5 year product warranty
- Designed and manufactured in Australia

Edge Processing

Alarming/Fast Logging

The Captis Multi 1.2 has on board capabilities for handling process alarms and higher resolution logging and sending, based on measured values. This feature ensures that critical alarm conditions are never missed and users are informed.

Fast Log/Send

The “fast log” feature enables higher resolution data logging and sending, triggered by exception alarming at the device. The Captis Multi 1.2 will swap the default log and send interval to a second set of higher frequency logging and sending intervals on a configurable alarm value - returning to the default log interval and send interval when the alarm state has cleared.

Process Alarms

Alarms will trigger based on the processed 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.

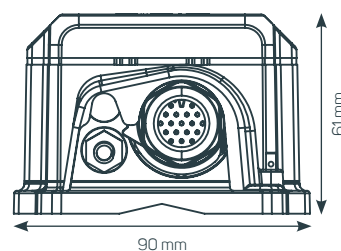
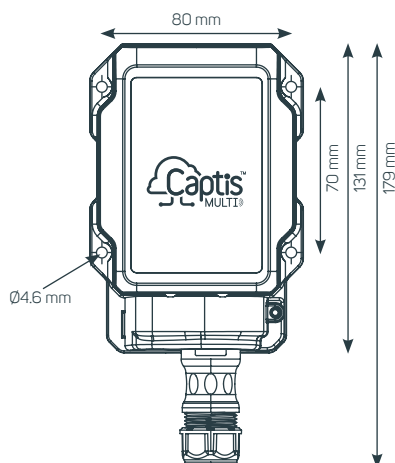
Connection can be made to the client’s selected platform on an alarm state, where the SMS and email alert functionality can be actioned.



Cable Cut Loopback Detection

The Captis Multi 1.2 supports a loopback cable cut detection if required for identifying physical tamper. It is recommended that the tamper loop is as close as possible to the sensor to ensure the cable cut functionality is effective.

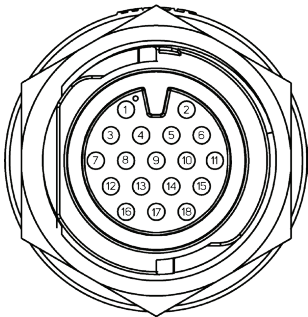
DIMENSIONS



SPECIFICATIONS

Battery Voltage	3.6V
Battery Capacity	19000 mAh
Battery Type	"D" Size Non-Rechargeable LiSoCl ₂
Product Warranty	5 years / 5,000 transmissions*
Pulse/Digital Inputs (2)	Switch and Pulse Modes: -48v to 48v Max Pulse Rate: 1000Hz
Digital Outputs (1)	12V 1.0A, Solid State Relay
Analog Input 1	0-10V
Analog Input 2	4-20mA
Serial Inputs (1)	RS232/RS485, Modbus RTU
1-Wire Channels (1)	Temperature/Humidity Sensors
Sensor Power Outputs (2)	5VDC, 100mA / 12A VDC, 40mA
Protocols	MQTT, MQTTS
Certification	RoHS, RCM, CE & FCC
Platform Supported	Platform Agnostic including Software AG Cumulocity and Microsoft Azure
GPS	External SMA (GPS antenna not included)
LTE Antenna	Built-in internal antenna, external antenna capability (auto-switch for best signal strength, external antenna not included)
IP Rating	IP68
Log Interval - Min	10 seconds
Send Interval - Min	5 minutes
Operating Temperature	-20° to 70°C
Unit Dimensions	131 x 90 x 61 (LxWxD) w/ connector 179 x 90 x 61

PINS & FUNCTIONS



AMPHENOL FRONT VIEW

* Battery life of <5,000 transmissions based on; an average signal strength of -96dB (RSRP), 15 minute data logging frequency, normal payload of ~ 20KB. Other considerations affecting battery life; use of multiple sensors and connected power requirements, use of multiple sensors can increase data payloads and transmission times, higher logging frequencies due to more frequent powering of sensors and larger data payloads.
** SDI-12 Pending

PIN	FUNCTION	PIN	FUNCTION
1	Digital Input 2 +	10	Analogue Ground
2	Digital Output 1	11	SDI-12**
3	Digital Input 2 -	12	1-Wire
4	5V Output+	13	Modbus B
5	Ground 1	14	Ground 3
6	Digital Output 1	15	Analogue 4-20 mA+
7	Digital Input 1 +	16	12V Output+
8	Digital Input 1 -	17	Modbus A
9	Ground 2	18	Analogue 0-10V+