



Ideal for multi-variable monitoring and more frequent log and send intervals, with the added flexibility of a rechargeable battery and optional connection to solar.

## FEATURES

- Sensor agnostic: connect to most off-the-shelf sensor to the industry standard interfaces and protocols
- Run all inputs simultaneously
- Supported out-of-the-box connectivity: LTE (CAT-M1, NB-IoT)
- Embedded SIM
- Encrypted configuration over-the-air (COTA)
- Encrypted firmware upgrades over-the-air (FOTA)
- Secure firmware downloads
- Data transferred over encrypted connection (SSL/TLS)
- Physical tamper notification
- Onboard data storage
- IP68 rated
- Battery powered
- Designed and manufactured in Australia
- Optional accessory: solar cell



## EDGE PROCESSING

### Alarming

The Captis Recharge 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.

### Alternate Log/Send

The “alternate log” feature provides higher resolution data logging based on certain alarm conditions. The Captis Recharge 1.2 will swap the default log and send interval to a second set of high higher frequency logging and sending intervals on a configurable alarm value - returning to the default log interval and send interval when that 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.

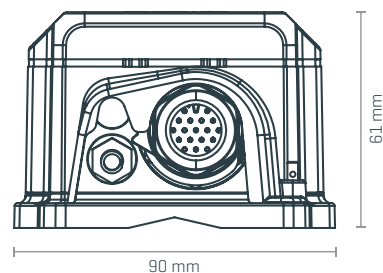
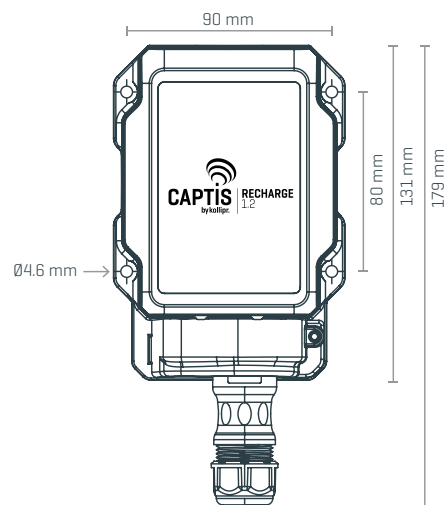
### Cable Cut Loopback Detection

The Captis Recharge 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.

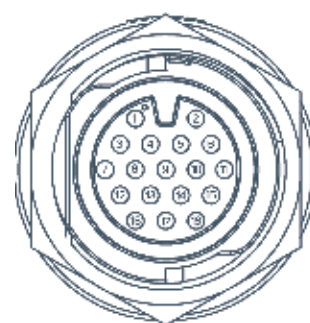
## SPECIFICATIONS

<b>Power Source</b>	Solar cell or mains connection
<b>Supply Voltage</b>	5.24VDC, 0.5A
<b>Battery Voltage</b>	3.6V
<b>Battery Capacity</b>	3350 mAh
<b>Battery Type</b>	Rechargeable Li-Ion 18650
<b>Product Warranty</b>	5 years / 5,000 transmissions <sup>1</sup>
<b>Digital Inputs (2)</b>	Active and Passive Switch and Pulse Modes: -48v to 48v Max Pulse Rate: 1000Hz
<b>Digital Output</b>	Solid State Relay, max 24V 0.5A
<b>Analogue Input 1</b>	0-10VDC
<b>Analogue Input 2</b>	4-20mA
<b>Serial Input</b>	RS232/RS485, Modbus RTU
<b>1-Wire Channel</b>	Temperature/Humidity Sensors
<b>Sensor Power Output 1</b>	5VDC, 100mA <sup>2</sup>
<b>Sensor Power Output 2</b>	12VDC, 40mA <sup>2</sup>
<b>Protocols</b>	MQTT
<b>Certification</b>	RoHS, RCM
<b>Platform Supported</b>	Out of the box integration with SAG's Cumulocity and Microsoft Azure
<b>LTE Antenna</b>	Built-in internal antenna, external antenna capability (auto-switch for best signal strength, external antenna not included)
<b>IP Rating</b>	IP68
<b>Log Interval – Min</b>	10 seconds
<b>Send Interval – Min</b>	15 minutes
<b>Operating Temperature</b>	-20° to 70°C
<b>Unit Dimensions</b>	131 x 90 x 61mm (LxWxD) w/connector 179mm (L)

## DIMENSIONS



Amphenol Front View  
(Captis Receptacle)



## PINS & FUNCTIONS

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

<sup>1</sup> Please find all Captis warranty information on the Kallipr website: <http://www.kallipr.com/captis-product-warranty/>

<sup>2</sup> Please note for any sensors intended to be connected to the Captis Device, these should be reviewed and verified by Kallipr prior to use to ensure compatibility.