

### Overview

The EWS Solar-Mount Telemetry Logger leverages the power and reliability of our Switch Data logger family to deliver a cost-effective, compact and self-contained package which includes a neatly fitted 3-watt solar panel and external panel mount plugs to monitor a wide range of environmental applications. For ease of installation the Solar-Mount Telemetry Logger is pre-programmed for simple plug and play on site. The Australian manufactured Solar-Mount Telemetry Logger is ideal for new and retro-fit monitoring projects where long-term unattended collection of readings from sensors is required.

### Features

- ✓ Multi-Communications options; Send data via Iridium Satellite or 4GLTE.
- ✓ Reads SDI12, Modbus, 4-20mA, Pulse and Vibrating Wire Sensors.
- ✓ Ultra-Low power draw with internal battery backup.
- ✓ 3-watt solar panel neatly fitted for long-term unattended monitoring.
- ✓ Bluetooth embedded for local app connection and programming.
- ✓ Remotely change settings with two-way communications including via Iridium.
- ✓ Compact form factor with everything included — 200 x 250 x 20mm (lower portion) 80mm upper portion.
- ✓ Lightweight.
- ✓ Panel Mount Plugs for easy on-site sensor connection.
- ✓ Automatic data upload directly to Orion web portal.
- ✓ UV Protected housing.



### Benefits

- ✓ Connects to most standard environmental and geotechnical sensors.
- ✓ No bulky cabinets or external batteries required.
- ✓ Extremely compact and discreet, reducing installation footprint.
- ✓ Designed and Manufactured in Australia.
- ✓ Rugged and robust - deigned for harsh remote environments.
- ✓ Plug and play setup on site.
- ✓ Ideal for short or long-term, unattended deployments.
- ✓ Easy to relocate.
- ✓ Quick and easy to install.
- ✓ Perfect for new and retrofit instrumentation projects.

# SPECIFICATIONS

Specifications subject to change without notice.

## MEASUREMENT

Measurement Interval	1 second to 24 hours
Number of Stored Measurements	2 years @ 1 hour logging

## COMMUNICATIONS / INTERFACE

### Telemetry

Number Available	Single channel either Iridium SBD or LTE Cat NB1
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### MODBUS

Number Available	Single powered bus with up to 10 addressable devices
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### 4-20mA Analogue

Number Available	Up to 2 (shared with pulse on same port)
Range	0mA to 25mA
Sensitivity	7µA
Accuracy	0.50%

### Pulse Input

Number Available	Up to 2 (shared with 4/20mA on same port)
Pulse Width	5ms to 1 sec
Polarity	Active low

### Relay driver output

Voltage	+12V +/- 10%
Current	0.2A
Polarity	Active low

## ELECTRICAL

Input Voltage	+12.5V to +24V
Battery	Rechargeable +7.4V, 1.8A/hr or non-rechargeable +9.2V, 1.4A/hr *Extender pack available
Current Consumption	0.1mA standby type (all sensors unpowered)
Iridium Transmission	0.7A @ +12 Volts
Power Connection	M8 connector
SDI-12 Port	M12 connector or 3 position terminal strip
Modbus	M12 connector or 2 position terminal strip
Red Warning LED	Indicates operation error
Green Heartbeat LED	Indicates unit operating properly
Blue Interface LED	Indicates interface communication

## OTHER FEATURES

Processor	32 bit Arm Cortex M4 processor
Clock	Internal real-time clock w/battery backup
Reed Switch	Swipe to activate
Connectivity	Blue Tooth / USB

## MECHANICAL

Dimensions	200mm x 250mm x 20mm (bottom) 80mm
Weight	(top) 900 grams

## ENVIRONMENTAL

IP Rating	IP67 ABS UV Protected
Temperature	-20°C to +60°C functionality
Humidity	0-95% Non-condensing