

EWS

Solar-Mount

Environmental IoT Device.



Environment • Water • Geotechnical • Data



EWS Solar-Mount Environmental IoT Device

Overview.

The **EWS Solar-Mount Telemetry Logger** leverage 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, Modbus485, 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.

Measurement

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

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)
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Range	0mA to 25mA
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Sensitivity	7 μ A
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Accuracy	0.50%
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Pulse Input

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

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

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

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



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