



The REACH™ Sentry Sensor Dual provides industry standard 4 – 20mA sensing and control functions in the most remote locations. Using Low Earth Orbit satellite technology and powered by solar with backup battery, the Sentry Sensor Dual is capable of reporting back up to two sensors data from virtually anywhere on the face of the earth.

The Sentry Sensor Dual is designed to be used in rugged conditions in locations where standard communication networks, such as 4G and 5G do not provide a reliable communications medium. The Sentry Sensor Dual is designed to operate in industries such as mining, fuel storage and transport, agriculture and military applications.



The Sentry Sensor Dual can be operated as either a standalone product with reporting dashboard or can be integrated within an already in place infrastructure.



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* Due to continual product refinement and improvement, this specification may be subject to change without notice.

TECHNICAL DATA

Solar or DC Input

Maximum Solar Open Circuit Voltage:24VDC
DC Power :24VDC @ 500mA
Solar Panel:..... 20Watt

Input / Output (Config Dependent)

Sensor Power Out: ...+24VDC @ 30mA
Sensor Input: 4 – 20mA
Relay Output:NO and NC
Serial Comms:.....RS232/RS422/RS485
Data Input: 12VDC to 24VDC
Status LED:Red/Green/Blue

Operating

Sensor Sampling Rate (min):.....10 s
Protection: Short circuit
 Reverse polarity
 Temperature

Operating Temperature: -20°C to +50°C

Configurations:

Config A: 2x 4-20mA Sensor Inputs
Config B: 1x 4-20mA, 1x Serial Comms

Contact us for custom configurations that can include any input and output listed above.

Colours:



Contact us for custom colours.

ORDERING INFORMATION

Go to www.reachssd.com.au for the latest product and ordering information.

CONTACT DETAILS

For further product information or specific product needs please contact ReachSSD on enquiry@reachssd.com.au

REACH SSD SPECIFICATION

Parameter	Value
Solar Panel Specification	
Solar V_{OC} (VDC)	24VDC Max
Solar Maximum Power	20 Watts
Short Circuit Current I_{SC}	1.1 Amps
Connector	4 Pin Male Milspec
Dimensions	420mm x 340mm x 17mm
Sensor Input Specification (Configuration Dependent)	
4-20mA Sensor Input	
Sensor Output Voltage	24VDC +/- 10%
Sensor Input Current	4mA to 20mA
Connector	3 Pin Female Milspec
Serial Comms	
Communications Protocol	RS232/RS422/RS485
Connector	6 Pin Female Milspec
Battery Specification	
Chemistry	Rechargeable Lithium Ion
Capacity	1 Cell (3AH) up to 4 Cells (12AH)
Charge Rate	2AH Max
Charge Operating Temperature	-20°C to 50°C
Environment Specification	
Operating Temperature (°C)	-20°C to +50°C
Storage Temperature (°C)	-20°C to +60°C
Relative Humidity	0 – 100%
Size Sentry Sensor Dual (LxWxH)	250mm x 145mm x 70mm
IP Rating	IP66
System Weight (Solar Panel and ReachSSD)	3000 Grams

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