



No Sun.

No Power.

No Problem.





WiSI-SP from Rugid Computer not only eliminates the need for costly and vulnerable wiring, but also eliminates the time and complication of putting together an entire outdoor, self-sustained data acquisition package... and for a fraction of the price.

Radio: 2.4 GHz IEEE 802.15.4

Range	Up to 4 KM / 2.5 miles
Transmit Power	+19 dBm, (79 mW)
Receiver Sensitivity	-100 dBm
Antenna Connector	Reverse polarity SMA, 50 ohms
Encryption	128-bit AES, user selectable key
Data Rate	250 kbps

General:

Power	+5 – 15 VDC
Operating Temperature	-20 to 70° C
Weight	0.24 kg (0.52 lb)
Mounting	2 inch ID pipe

Sensor Supplies:

3 non-isolated, switched	
+18 Volt Supply	25 mA max combined load
+5 Volt regulated	

Digital Inputs:

4 non-isolated, sinking, wetted 3.0V	
Input Voltage Rating	0 – 24 VDC
Input Current	2 mA max at 24 VDC
Pulse Frequency	150 Hz max— sleeping nodes
Pulse Width	50 µs

Digital Outputs:

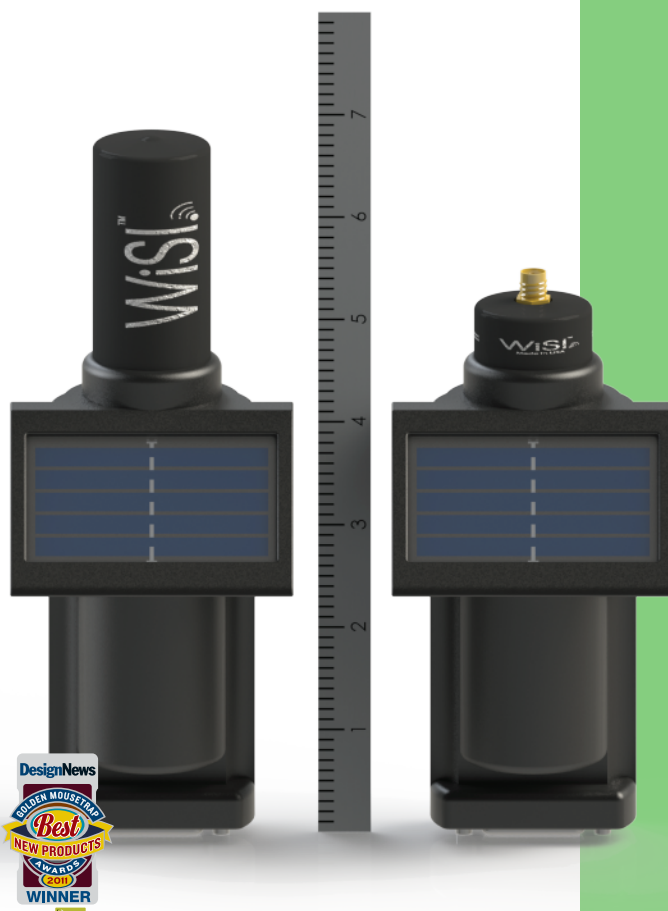
4 FET, sinking	
Voltage Rating	42 V max
Current Rating	2 A max

Analog Inputs:

4 non-isolated 12-bit, single ended	
0 – 40 mA	0.04 mA min, 45 mA max
0 – 5 Volts (up to 4)	0.025 V min, +5.15 V max
-1.8 Volts to +1.8 Volts (up to 4)	-1.8 V min, +1.8 V max
0 – 2.2 Volts (up to 4)	0.02 V min, +2.30 V max

Serial Port:

Configuration	RS232
Protocols	Modbus RTU master



WiSI-SP provides a completely integrated and fully featured solution for wireless data acquisition without the need for an external power source.

With a 10-year integrated solar panel for energy harvesting and a lead-free super capacitor for energy storage, WiSI-SP can communicate up to a week without sunlight.

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