

Introducing **WiSI**. **Wireless Sensor Interface** is designed to boldly go where no wire has gone before. Cost-effective remote monitoring is now possible by simply attaching your sensor directly to WiSI. WiSI will send your data securely with 128-bit AES encryption up to a 2 mile range. Now there is no need for an expensive radio and PLC everywhere you need to monitor.

Features

- Up to 2 Mile Range At 2.4 GHz – No License Required!
- 128-Bit AES Encryption
- Solar Power With Backup Power for Running Overnight**
- No Maintenance / **No Batteries** to Change!**
- Switched 5 Volt and 18 Volt Supply for Powering Sensors
- Modbus Interface Provides Flexibility – View Collected Data and Dynamically Adjust System
- Low Power Indication (Available Through Modbus Interface)**
- Environmental Protection IP 67 Rated Enclosure
- Transmit LED
- Onboard Switch to Force Transmission
- Onboard Temperature Measurement
- Serial Port for Modifying Node Settings and Sending Data
- Easily Integrates With Rigid RTUs – Automatic Array Generation
- Easy Installation – Only Need to Attach Local Signal Wires
- Easy Network Setup Through **FREE** Configuration Software
- Low Power, Suitable For Energy Harvesting Applications
- Viewable Signal Strength For Installation And Debugging
- Fits Inside Standard 2" ID Pipe

Specifications

- IEEE 802.15.4 Radio:
 - Range: Up to 2 Miles
 - Frequency: 2.4 Ghz
 - TX Power: 19 dBm, (79mW)
 - TX Current: 125 mA
 - RX Sensitivity: -100 dBm
 - RX Current: 45 mA
- I/O:
 - 4 12-Bit Analog Inputs, Hardware Pre-Configured With a Combination of The Following Types (Contact For Offerings):
 - 0-5 Volt or 0-2.5 Volt
 - 0-20 mA
 - ± 1.8V
 - Low Voltage Input, 0-1.1 Volt (PT1000 RTD) or 0-2.2 Volt
 - 4 Digital Inputs (Powered, 0-24V input)
 - Pulse input up to 140Hz/50µs wide****
 - 4 Digital Outputs (FET Sinking, 0-42V, 2A)
 - 5 Volt Supply
 - 18 Volt Supply (25mA total external load)
 - 250 uA Current Supply for Powering RTDs
- Network Architecture:
 - Star – Up to 16 Nodes
 - Tree – Up to 200 Nodes
- 128-Bit AES Encryption
- Selectable Report Times – End Node Asleep Unless Reporting
- Modbus Interface to Coordinator
- Power:
 - Local Solar Panel or External 6-12 Volts DC**
 - 6-24 Volts DC***
- Power Consumption:
 - 400 uA For End Nodes (Reporting Once per Minute, with no external loads)
 - 20 mA for Coordinator/Router*
- Temperature: -20 to +70 Celsius



*Dependant upon size of system and report times

**SP Package

***EP Package

****Higher frequencies upon request