

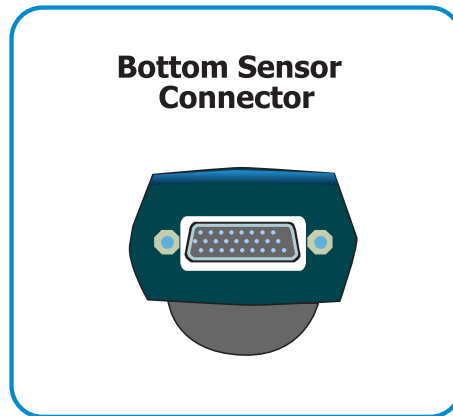
Smarter solutions, delivered faster

Making it easy for you to save water, time and money

WiSI MINI RTU A complete miniature Remote Terminal Unit (RTU)



Get Ready for a Full-Featured Mini-RTU with Embedded Radio for Less than You Ever Imagined

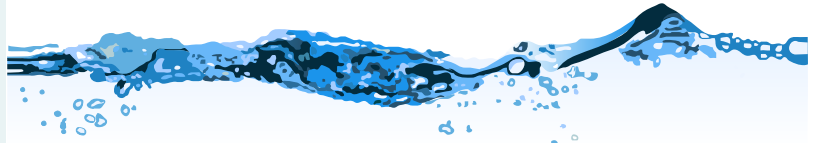


The Watch Technology WiSI system (wireless sensor interface) is a complete Remote Terminal Unit (RTU) in miniature. It includes an embedded radio, antenna, energy storage capacitor, 4 relay switches, and I/O connectors for sensors, external power, and serial port interface. Attach sensors or control wiring, place the WiSI SP with its embedded solar panel anywhere there is a minimum of sunlight, and it will collect data, transmit it at least two miles by radio or directly into an accumulator, run relays to control electro/mechanical devices like actuators, pumps, and motors, repeat secure encrypted data from sister devices, accept operational changes on-the-fly from a Base Station, and do myriad functions in any weather condition without the need for a battery change, ever. The WiSI is completely encased in an IP-67 rated enclosure.

The WiSI EP is setup for continuous duty and external power. All WiSI models are completely integrated nodes for a SCADA system sealed off from weather conditions (IP-67 rated). The WiSI comes with free easily configured software, "talks" Modbus from the Coordinator (Base Station) unit to a PC or other Modbus capable device, and can be deployed as easily as placing it into the end of a 2" pipe and walking away.

FEATURES

- Up to 2 Mile Range At 2.4 Ghz – No License Required!
- 128-Bit AES Encryption
- Solar Power With Backup Power for Running Over Night**
- No Maintenance / No Batteries to Change!**
- Switched 5 Volt and 12 Volt Supply for Powering Sensors
- Modbus Interface Provides Flexibility – View Collected Data and Dynamically Adjust System
- Low Power Indication (Available Through Modbus Interface)**
- Transmit LED
- Onboard Switch to Force Transmission
- Onboard Temperature Measurement
- Serial Port for Modifying Node Settings and Sending Data
- Easily Integrates With Rugged 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



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WiSI MINI RTU

Details Specifications



- **Radio:**
 - Range: More than 2 Miles
 - Frequency: 2.4 Ghz
 - TX Power: 19 dBm
 - TX Current: 125 mA
 - RX Sensitivity: -100 dBm
 - RX Current: 45 mA
- **I / O:**
 - 4 12-Bit Analog Inputs
 - 2 – 0-5 Volt or 0-2.5 Volt
 - 1 – 0-20 mA
 - 1 – 2-Wire RTD Interface
 - 4 Digital Inputs (Powered, 0-5V)
 - 4 Digital Outputs (FET Sinking, 0-45V, 500 mA)
 - 5 Volt Supply @ 50 mA
 - 12 Volt Supply @ 50 mA
- **Network Architecture:**
 - Star – Up to 16 Nodes
 - Tree – Up to 500 Nodes
- **128-Bit AES Encryption**
- **Selectable Report Times** – Sensor(s) Asleep Unless Reporting
- **Modbus Interface to Coordinator**
- **Power:**
 - Local Solar Panel or External 12 Volts DC
- **Power Consumption:**
 - 200 uA For End Nodes (Reporting Once per Minute)
 - 55 mA for Coordinator/Router*
- **3 X 2 Inches** (Board Only)
- **Temperature:** -20 to +70 Celsius