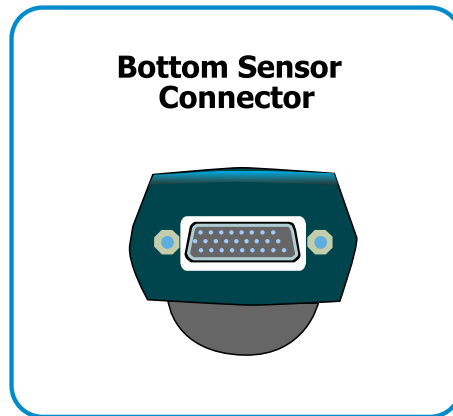


Making it easy for you to save water, time and money

WiSI DATA SENTRY DS-100 A complete miniature Remote Terminal Unit (RTU)

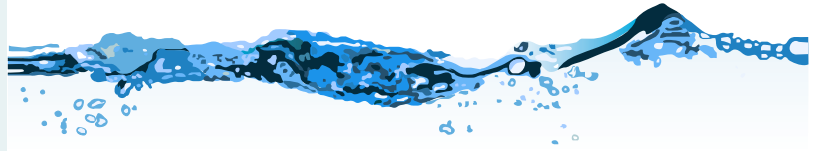
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Watch Technologies will be releasing its Data Sentry DS-100, a Wireless Sensor Interface product, early this Summer. The DS-100 is a complete Remote Terminal Unit (RTU) in miniature; including a “brain”, radio, antenna, energy storage, and connector for sensors, relays/switches, external power, and serial port interface. Attach sensors or control wiring, place it anywhere there is a little sunlight, very little, and it will collect data, transmit it at least two miles by radio or directly into an accumulator, run relays, repeat secure encrypted data from sister devices as far as needed, accept operational changes from a Base Station, and do myriad functions in any weather condition without the need for a battery change, ever. It is a completely integrated node for a **SCADA system** “potted” to be impervious to weather conditions or installation errors. It comes with free easily configured software, “talks” Modbus, and can be deployed as easily as placing it into the end of a 2” pipe and walking away. Of course, the DS-100 can be purchased in a form suitable for back-panel placement as well. Get ready for a full-featured mini-RTU with radio for less than you ever imagined possible.

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 DATA SENTRY DS-100

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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