WiSI™

Flexible Solutions For A Wireless Sensor Network

WiSI™ (Wireless Sensor Interface) from Rugid Computer provides a completely integrated and fully featured solution for wireless data acquisition. WiSI is designed for rapid deployment to monitor and control* remote sensors.

WiSI combines a license-free 2.4GHz radio, integrated solar panel with a lead-free super capacitor** for maintenance-free operation and multiple sensor interfaces in a waterproof IP-67 package. WiSI's self-configure into a robust wireless network, adapts to changing environmental conditions and securely passes data up to two miles per hop with 128-bit AES encryption. WiSI provides flexible solutions for a wireless sensor network.

I/O

Internal	Temperature	Low-Power Detection	Transmit LED	Switch/Force Transmission
Serial I/O	Modbus RTU			
Analog Inputs	0 – 20 mA	0 – 5 V	±1.8 V	0 – 2.2 V
Digital Inputs	Pulse	Status	Event	
Digital Outputs	2 A - Sinking			
Sensor Supply	5 V	18 V	250 µA	

Application Ideas

Water & Wastewater	Environmental Monitoring	Agriculture	Oil & Gas	Other
Tank Level Monitoring & Pump Control	Measuring Wind Speed with an Anemometer	Pivot Pump Monitoring	Cathodic Detection	Wire Replacement
Flow Meter Monitoring	Measuring Wind Direction with a Weathervane	Flow Meter Monitoring	Remote Switch	Security – Perimeter Monitoring
Retention/Overflow Pond Monitoring	Measuring Rainfall with a Tipping Bucket Rain Gauge	Soil Moisture and Smart Watering	Wire Replacement	Transportation – Over-Sized Load Proximity Detection
Waterway Gate Controls	Soil Moisture	Frost Detection		
Canal Monitoring	Air Pollution Monitoring			
	Forest Fire Detection			
	Greenhouse Monitoring			
	Landslide Detection			

*Additional equipment needed to perform control logic
**SP package

RUGID COMPUTER, INC.

9730 Lathrop Industrial Dr. SW, F1 • Olympia, WA 98512, USA

P: 360-866-4492 • F: 360-866-8074

www.rugidcomputer.com