

# S6200 Remote Monitor

pump/lift stations - water towers - wells

The MeshPlus<sup>®</sup> S6200 Remote Equipment Monitor (REM) is an integrated system for event reporting, alarm handling, and remote control of commercial and industrial equipment.

## MeshPlus<sup>®</sup> S6200 Remote Equipment Monitor

Housed in an IP67 rated outdoor enclosure, with a surge protected 120V / 240V AC power supply and 915 MHz FHSS radio, the S6200 REM includes:

- Four analog 4-20 mA inputs
- Eight contact closure monitor inputs
- Four digital outputs
- One RS-485 interface
- Internal and external expansion buses

Battery backup maintains status, contact closure monitoring and radio communications for up to three months during AC power outages, providing critical status information when it is most needed.

S6200s monitor their inputs continuously and report the state of their inputs and outputs at programmable reporting intervals. Alarm conditions and important events are timestamped when they occur and reported immediately via the wireless mesh network providing enhanced visibility and reduced latency compared to polled networks.

## MeshMaster

MeshMaster software provides powerful and easy to use tools for central monitoring and control of the S6200 monitoring network including:

- remote configuration and control of REMs
- remote updates of REM firmware
- automatic tracking of REM inventory
- stores REM data and alarm reports in an industry standard SQL database for easy custom reports
- live status and alarm views showing the state of all REMs at a glance.
- extensive reporting capabilities for current and historical data and alarms.
- data export capability

Graphical charting and reporting simplify data display and trend analysis. For example: a chart can display the level of a tank and the "on and off" times of a pump motor over a day, week, or month.

Map views display REMs on satellite maps allowing operators to pinpoint REMs in alarm and monitor the health of their mesh network.



## Wireless RF Mesh Network

S6200 REMs communicate over a 915 MHz license free wireless mesh network. Each REM is both a repeater and router, ensuring high reliability.

MeshPlus networks are fully ad-hoc, with automatic discovery and routing, no operator configuration is required. All wireless communications are 128-bit encrypted for a high level of security.



# S6200 Remote Equipment Monitor

I/Os		
Digital Inputs	Available: 8	Monitors contact closures for open or closed state Pin 1: 5K ohm resistor pulled up to 3.3V Pin 2: Ground Surge / ESD protected
Digital Outputs	Available: 4	Form A 8A 250V AC    5A 30V DC
Analog Inputs	Available: 4	4-20 mA, 10 bit resolution 100 ohm impedance, reverse polarity protection
Data Port	Available: 1	RS-485 two wire multidrop RJ45 Connector

General	
Power Requirements	120VAC or 240 VAC +/- 10%,
Surge Protection	ANSI C62.41 Surge Compliant    Surge Rated to 6000 V at 3000 A
Battery Backup	Maintains RF communications and monitoring of digital inputs Digital outputs maintain last state
Enclosure	IP67 Rated Die Cast Aluminum
Physical Size	11"H x 9"W x 4"D
Mounting	Pole or wall mount
Environmental	-40 C to +85 degrees C

Radio	
Frequency	902 MHz to 928 MHz license free ISM band
Spread Spectrum	Frequency Hopping
Transmit Power	23 dBm
Receiver Sensitivity	-110 dBm
Encryption	128 Bit Symmetric Key
Antenna Connector	Type N