SlatercomRSM - Wireless Remote Site Monitoring Telemetry

Remote Site Monitoring & Management Telemetry Solution

Slatercom- a leading developer of <u>remote asset management solutions</u>, in partnership with Ayantra, has created a solution for managing remote sites.

The Challenge: Remote facilities such as cell towers and pump stations are typically unattended and distributed over a wide geographic area. Facilities managers must be immediately informed if any critical events occur, including:

- Loss of power
- Equipment failure
- Intrusion and/or equipment theft

Managing remote sites is a difficult task. Slatercom can help.

The Solution: SlatercomRSM is a web-based wireless solution for managing remote sites. The SlatercomRSM system continually monitors the availability of main power at the remote site and offers six user-configurable digital inputs for reporting critical events. Alert Notifications are issued in real-time and can be delivered as text messages and/or email messages. SlatercomRSM even includes one digital output to provide Remote Start / Stop capabilities.

The SlatercomRSM system solution consists of:

- A Slatercom monitoring unit installed at the remote site
- A Slatercom-provided wireless communications to/from each remote unit.
- A Slatercom-provided website to enable managers to collect Status Reports, specify Alert Notifications, send Remote Commands, and more.

Ayantra Data Center

Features

- **POWER MONITORING:** Each SlatercomRSM monitoring unit continually checks main power and immediately reports Loss of Power events as they occur.
- **DIGITAL INPUTS:** Each SlatercomRSM monitoring unit provides six user-configurable digital inputs. Each input can be configured to report any type of Fault condition or other type of event. Authorized users can access the website to define each input.
- **DIGITAL OUTPUT:** Each SlatercomRSM monitoring also includes one digital output. The digital output can be used to drive a relay, which in turn can be used to command onsite equipment such as a generator or a pump. The end result is that SlatercomRSM can provide a Remote Start / Stop capability for managing certain types of remote onsite equipment.
- **AUTOMATIC REPORTING:** Each SlatercomRSM monitoring unit sends a Daily Heartbeat message to report the status of its remote site. The regularly-scheduled Daily Heartbeat messages are also supplemented with real-time updates which are issued immediately upon detection of any critical event.
- **REAL-TIME ALERT NOTIFICATIONS:** Each SlatercomRSM monitoring unit sends real-time updates upon detecting Fault events. Authorized users can specify up to eight recipients for each type of Alert Notification. The Alert Notifications can be delivered as text messages and/or as email messages.
- **REAL-TIME UPDATES:** Authorized users can access the website to ping any remote monitoring unit at any time to collect an up-to-the-minute status update..
- **HISTORY LOG:** The data in the SlatercomRSM database is retained for twelve months. The data can also be exported at any time.
- **BACKUP BATTERY:** The SlatercomRSM monitoring includes an integrated backup battery to enable it to immediately report a Loss of Power event, and to continue operating for a short time even after main power is lost.

- **WIRELESS COMMUNICATIONS:** SlatercomRSM operates wirelessly, and can provide remote monitoring capabilities without requiring leased lines or other Telco services at any remote site.
- **AVAILABLE WITH OR WITHOUT ADDITIONAL ENCLOSURE:** See the part numbering box below for descriptions of options.

Remote Site Management Hardware Specifications:

NEMA-4 Outdoor-rated case:	4.75" x 2.60" x 1.40"
Power:	8 - 32 volts DC
Power Draw:	
Active Mode:	75 mA (typ) @ 12V
PowerSave Mode:	25 mA (typ) @ 12V
Built-in back-up battery	
Environment:	
Monitoring unit - Operating:	-20°C → +60°C
Monitoring unit - Storage:	-45°C → +85°C
Humidity:	0 - 95 RH @ 40C
I/O Ports:	
Input Ports:	6 Inputs (4 user-configurable)
Output Ports:	2 Outputs (both used for Remote Start)
Data port:	RS-232

Part Numbers:

SlatercomRSM-1: Basic SlatercomRSM system for integration into existing enclosures (as shown directly above, this system is already protected in a NEMA enclosure but requires some integration).

SlatercomRSM-2: SlatercomRSM system mounted in NEMA 4X enclosure and includes terminals for wire-up of all monitoring connections. System also includes external antenna for mounting on enclosure or can be extended for mounting outside of a building for enhanced reception. Standard enclosure is polycarbonate but Slatercom offers stainless steel and powder coat steel enclosures at an additional cost).