

**MODEL M-800 Series**

## Real Time Monitoring And Control System

This type of low cost, turnkey SCADA system has never been available before. The complete system includes M-800 field RTU, all wireless connections, report and graph software, all alarms and a website.



### One M-800 Is A Complete SCADA System

### M-800 RTU Comes With Everything You Need

### Continuous, Real Time Wireless Connectivity

### Centralized Web Software And/Or Direct Into Yours

### Full Suite Of Cost Saving Software Features

### Flexible Alarm Notifications, Tracked To Alarm Site

### Website Provides Remote Data Access & Control

### One M-800 Is A Complete SCADA System

Each M-800 includes a field RTU, Nextel wireless communications, web based HMI software, amazing alarm notifications and a website. The whole system is up and running in a few hours.

### M-800 RTU Comes With Everything You Need

Each RTU has 11 digital, 2 analog, 2 pulse counter (optional) and 1 key reader inputs; 3 outputs. It also includes a radio, enclosure, antenna, power supply and backup battery.

### Continuous, Real Time Wireless Connectivity

The M-800 series connects continuously through Nextel. There is no polling. Analog and digital input changes are updated as they occur.

### Centralized Web Software And/Or Direct Into Yours

MISSION's web based software is very simple; you set it up yourself in 10 minutes. Simultaneously, you can also send the data into your existing software like Wonderware® or Intellution®.

### Full Suite Of Cost Saving Software Features

It tracks hourly pump run times and starts, analyzes them and calls you before there's a serious problem. Continuous volumetric flow calculations and false alarm suppression features save money too.

### Flexible Alarm Notifications, Tracked To Alarm Site

Alarms can be delivered via all pagers, e-mail, faxes, voice phone calls or TCP/IP. Electronic RTU service keys log personnel site arrival and maintenance times. No more manual logs.

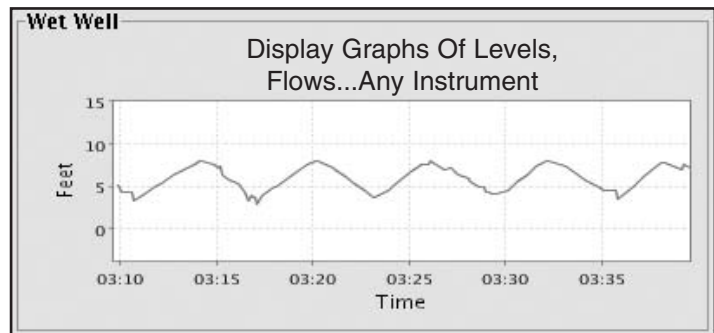
### Website Provides Remote Data Access & Control

MISSION provides each customer with a secure website to view current status, run reports or make updates. It even runs on WAP cellphones.

## OVERVIEW

*MISSION* uses Nextel and centralized computer services to offer a revolutionary, real time monitoring and control SCADA system. It can also economically replace, or complement, existing radio or phone line based SCADA systems. It has never been easier or more economical to add a new site, replace troublesome sites or replace costly phone lines. It's extremely easy to use, and it installs in a few hours. The wireless communication is through Nextel to *MISSION's* automated control center and then out to you. The data goes to your secure *MISSION* web site which can be your HMI and/or seamlessly to your existing HMI computer using any OPC compliant software like Wonderware® or Intellution®. *MISSION* provides incredible web graphics to display real time analogs, digital status and control. There are no additional computers, contracts or licenses to obtain. *MISSION* handles all hardware and services.

*MISSION's* automated Control Center also simultaneously generates alarm and status notifications to your personnel via all pagers, e-mail, faxes, voice phone calls or TCP/IP. All alarms are easily confirmed by time and recipient, and tracked out to the problem site through electronic RTU service keys. The keys also track maintenance personnel activity while working on site. The system handles standard SCADA functions such as continuous analog values, general alarms, pump run times/starts, real time storm surge flow monitoring, meter reading, and well or tank level monitoring with pump control, etc. Continuous volumetric flow calculations and weekly management reports are included. Most importantly to you, the *MISSION* system saves you money over existing telemetry and monitoring methods. In addition to its lower cost, it can save money in reduced labor and overtime with its advanced monitoring information and field personnel management tools. Now supervisors can conveniently oversee what's happening, who's responding and when it happened. All this at the price of many autodialers and less than the cost of most phone lines!



## TECHNICAL SPECIFICATIONS SUMMARY

### Hardware:

- 8 supervised digital inputs, changeable to run time/starts accumulators. 3 additional digital inputs built in (AC and battery fail, input wiring fault).
- 2 analog inputs: 0-5 VDC, 4-20mA, 10-bit resolution, 4 alarm set points per input
- 2 pulse counter inputs (opt.): meter or flow reading
- 1 electronic key reader for site activity tracking
- 3 remotely controllable, form C dry contact relay outputs (1 amp @ 12 VDC), N.O./N.C.
- Supervised 1.2 amp power supply with 5ah battery backup included
- 8 vertical LED's have two display modes: diagnostic or signal strength.
- 8 channel LED's display alarm status

### Radio:

- Units automatically self enroll, no startup delays
- Nextel radio with 128 bit encryption
- 2 watt maximum transmit power
- Receiver sensitivity: -112dbA

### Physical:

- N8321 NEMA1 enclosure: 11"h x 11"w x 3.5"d
- N8322 NEMA4X enc: 13.25"h x 13.75"w x 5.5"d
- N8323 NEMA1 "FlatPak": 7.75"h x 10.5"w x 1.5"d
- Operating temperature -20F to +160F

### MISSION Control:

- All *MISSION* facilities secured and backed up
- Data center can link real time with existing SCADA system control room HMI software (Wonderware, Intellution, etc.) that are OPC compliant.

### MISSION Website:

- Web site user access setup, additions, deletions
- View data from both Model 100 and 800 series units
- Read only and read/write access by password

### MISSION Web Software:

- No engineers needed as "programming" is simple
- View key data from multiple units on one screen, and change it yourself quickly and easily.
- Numerous false alarm suppression features

### MISSION Notification:

- Powerful alarm notification scheduler changes call list by time/date and alarm type
- Simply program "on duty" personnel for manual or automatic rotation by time of day or day of week.

**MISSION**

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