

Real Time Monitoring And Control System

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

One M-800 Is a Complete SCADA System

Each M-800 includes a field RTU, wireless communications through cellular data, MISSION based computers and software, amazing alarm notifications, and two customer websites. The whole system is up and running in a few hours. Customer has no computers or networks to maintain!

M-800 RTU Comes With Everything You Need

Each RTU has 8 digital inputs and 4 virtual inputs, 2 analog, 2 pulse counter (optional), and 1 key reader inputs; 3 remotely controllable relay outputs. Optionally expand to 6 analog or 16 digital inputs. It also includes a radio, enclosure, antenna, antenna cable, power supply, and backup battery.

Continuous, Real-Time Wireless Connectivity

The M-800 series connects continuously through AT&T, Nextel, Sprint, or Verizon. There is no polling. Analog and digital input changes are updated as they occur. Watch in real time as pumps turn on/off and levels change. Turn relays on/off manually or automatically.

Centralized Web-Based Software and/or Direct Into Yours

MISSION's web-based software is very simple; we set it up for you and upgrades are included and automatic. Send your data directly into your existing HMI software like Wonderware® or Intellution® via OPC.

Full Suite of Cost Saving Software Features

It tracks hourly pump run times and starts for up to 8 pumps, 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 OPC. Electronic RTU service keys log personnel site arrival and maintenance times. No more manual logs.

Website Provides Remote Data Access and Control

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



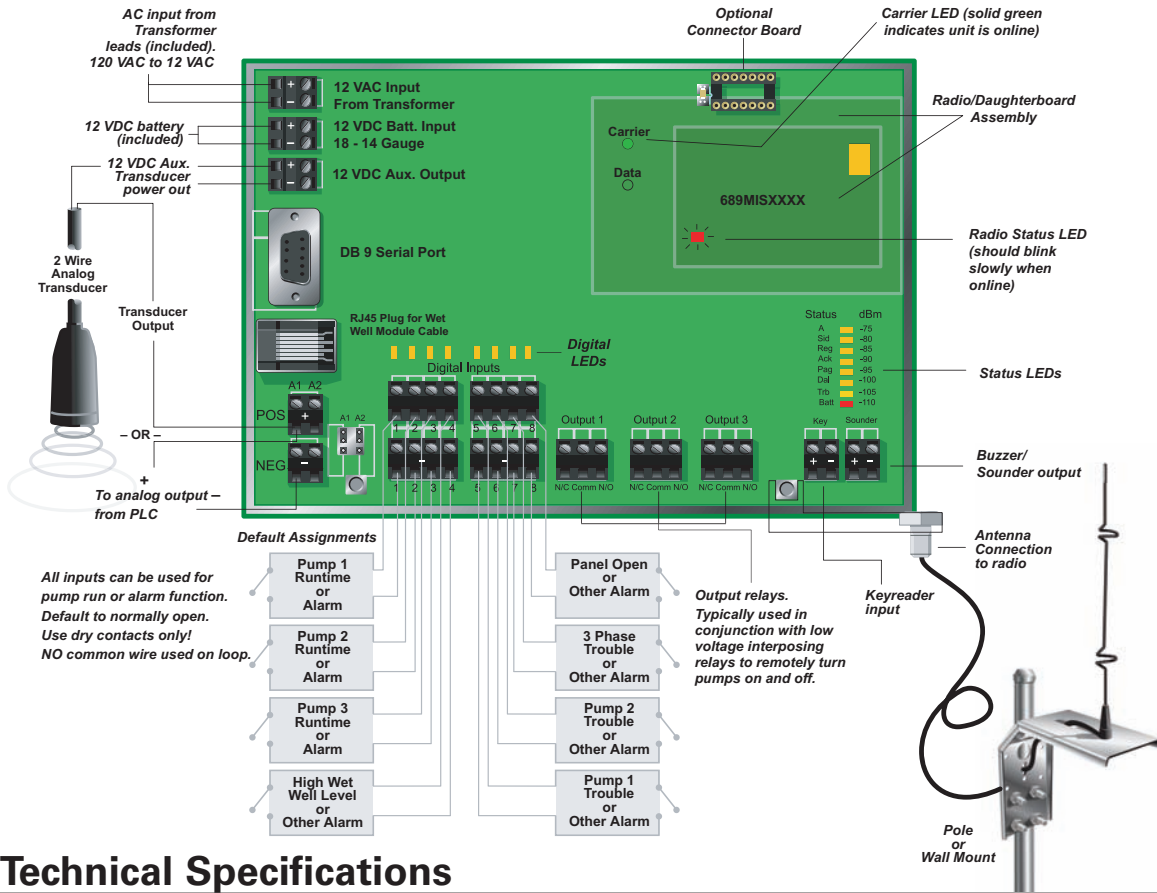
*NEMA 4X
Enclosure
Option Shown*



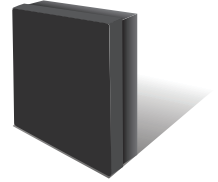
- **One M-800 Is a Complete SCADA System**
- **M-800 RTU Comes With Everything You Need**
- **Continuous, Real-Time Wireless Connectivity**
- **Centralized Web Software and/or Direct Into Yours**
- **Full Suite of Cost Saving Software Features**
- **Flexible Alarm Notifications, Tracked to Alarm Site**
- **Website Provides Remote Data Access and Reports**

Details

MISSION uses AT&T/Nextel/Sprint/Verizon 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.



Outdoor NEMA 4X enclosure:
Top and front sun shield
13.75" h x 13.25" w x 6.25" d
(with sun shield)



NEMA1 enclosure:
11.25" h x 11.375" w x 3.5" d
Use indoors, wall mounting



Flatpak NEMA1 enclosure:
7.75" h x 10.5" w x 1.5" d
Use inside MCC cabinet

Technical Specifications

Hardware:

- 8 supervised digital inputs; 8 changeable to runtime/starts accumulators. 4 additional built-in alarms (AC, low battery, communications fail, and input wiring fault). Optionally expand to 16 digital inputs.
- 2 analog inputs: 4-20mA, 0-5 VDC, 10-bit resolution, 4 alarm set points per input. Option board expands analogs to 6.
- 2 pulse counter inputs (optional): rainfall or flowmeter or reading.
- 1 electronic key reader for site activity tracking.
- 3 remotely controllable, form C dry contact relay outputs (1 amp @ 12 VDC), SPDT, N.O./N.C.
- Supervised 1.2 amp power supply with 5AH battery included provides up to 30 hours of back up power.
- 8 vertical LEDs have two display modes: diagnostic or signal strength.
- 8 digital input LEDs display alarm status and wiring faults.
- UL listed Class II / Class III wet transformer.
- Includes Antenna Kit #424 with mounting bracket and 11' of cable. Omnidirectional outdoor antenna can be wall or pole mounted.

Radio:

- Units automatically self enroll, no startup delays. Radios make live, continuous, encrypted socket connections with all data and alarms being "end-to-end" acknowledged. MISSION does not use SMS. "text" messaging for any communications with the M-110 or M-800.
- AT&T, Nextel, Sprint or Verizon radios, all with 128 bit encryption, and all using the data transmission protocol.

- 0.6 to 2 watt maximum transmit power and -112dBm sensitivity.

Physical:

- M-800 NEMA1 enclosure: 11.25" h x 11.375" w x 3.5" d
- M-802 NEMA 4X enclosure, with sun shield: 13.75" h x 13.25" w x 6.25" d
- M-803 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 redundant.
- Data center links real-time with existing SCADA HMI software (Wonderware, Intellution, etc.) that is OPC compliant.

MISSION Website:

- Two websites: full size screens and one for cell phones/PDAs.
- Read only, read/write and control level access by password.

MISSION Web Software:

- Very simple; no programming; upgrades included.
- View key data from all units on one overview map screen.
- Full graph and report options for your data which is held forever.

MISSION Notification:

- Full logs and delivery results of every attempt to call out an alarm; all voice alarms recorded. Know who got what alarm and when.
- Powerful alarm notification scheduler changes call list by time, date or alarm type; simple to adjust through the web or by MISSION.