

Wireless Monitoring And Alarm System

Simpler than an autodialer to use, and with many SCADA features. The complete system includes the M-110 field RTU, all wireless connections, report and graph software, all alarms, and two websites for remote access.

One M-110 Is a Complete Wireless Monitoring System

Each M-110 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!

The M-110 RTU Comes With Everything You Need

Each RTU has 8 digital inputs (plus 4 built-in), 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.

Remarkable Wireless Coverage and Reliability

The M-110 uses the data side of any cellular system, not the part you talk on. It works reliably even where your voice cell phone doesn't, and with multiple cell carriers available to it MISSION can make almost any site communicate reliably.

Centralized Web 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®.

Full Suite of Cost Saving Software Features

It tracks hourly run times and starts, graphs them, analyzes them and calls you if there's a problem. False alarm suppression features and real time data during alarms saves time and money.

Flexible Alarm Notifications, Tracked to Alarm Site

Alarms can be delivered via voice phone calls, all pagers, email, fax, or OPC. Full alarm dispatch logs track and record every call. Electronic RTU service keys log personnel site arrival and maintenance times.

Website Provides Remote Data Access and Reports

Customers get their own secure web sites to view data anywhere, including in the field through cell phones. Data for CMOM/State/EPA reporting is all there.

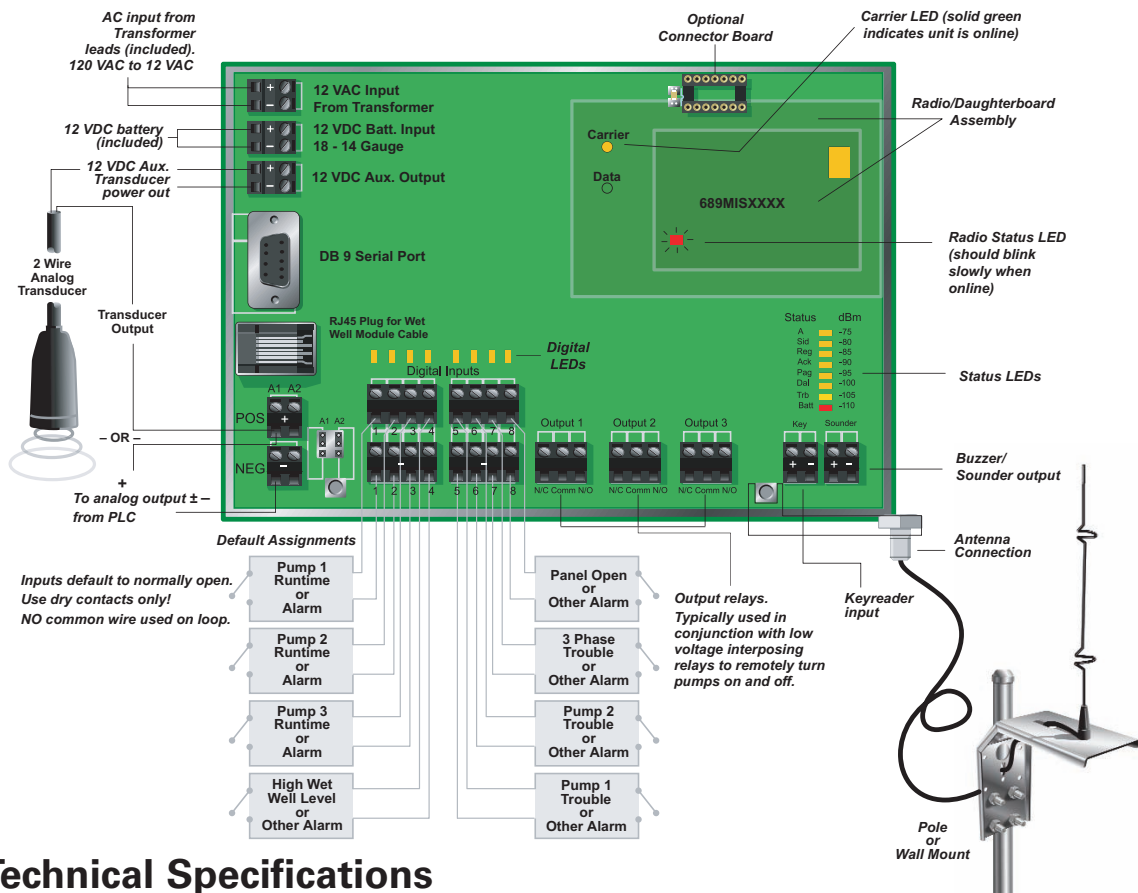
*Flatpak NEMA1
Enclosure
Option Shown*



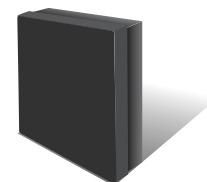
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Details

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; 3 changeable to runtime/starts accumulators. 4 additional built-in alarms (AC, low battery, and communications fail, input wiring fault). Optionally expand to 16 digital inputs.
- 2 analog inputs: 0-5 VDC, 4-20mA, 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 backup included.
- 8 vertical LEDs have two display modes: diagnostic or signal strength.
- 8 digital input LEDs display alarm status and wiring faults.
- Includes Antenna Kit 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-110 NEMA1 enclosure: 11.25"h x 11.375"w x 3.5"
- M-112 NEMA 4X enclosure, with sun shield: 13.75"h x 13.25"w x 6.25"d
- M-113 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.



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