

# The Next Generation of Wireless Real-Time Alarm, Monitoring, and Remote Control

All of the functionality of the M110 and M800, with an onboard interactive display and enhanced electronics.

## MyDro 150 and MyDro 850 RTUs

**Easy to Install**

Each Remote Terminal Unit (RTU) includes the necessary hardware for installation; such as a cellular radio, an enclosure, a backup battery, a transformer, an antenna with cable and mounting hardware. Standardized RTUs simplify and speed installation, there is no programming required and RTUs are self-enrolling.

### Reliable Wireless Communications

RTUs operate on current generation cellular radios for dependable data transmissions. Mission maintains direct relationships with the largest cellular carriers in the U.S. and Canada to ensure the best service possible. There are no radios to license, nor cellular contracts to setup.

### Real-Time Alarms Delivered To All Devices

Real-time alarms are delivered via phone (voice and text message), email, fax, pager, and even to your existing HMI software via an OPC data link. Each alarm is logged with a timestamp for tracking and reporting. The alarm callout schedule setup is easy, flexible, and intuitive to be as simple or sophisticated as you want it to be.

### Managed Service - The Complete Package

The Mission system includes all cellular data service, data storage, alarm callouts, reports, and on-call 24/7/365 technical support. The highly reliable turnkey system offers more features at a lower cost than an in-house setup. No engineering or programming is required and there are no networks to maintain.

View your data and reports using the included Mission 123SCADA software, accessible on your secure web portal from any web-enabled device. 123SCADA is the newest Mission user interface designed with the look and feel of industry-standard HMI SCADA that is packed full of new features as well as a legacy user mode. Tabular and graphical reports can be used for compliance reporting and comparative studies. As always, system enhancements are included at no cost and are immediately available.



## M150 RTUs

### Real-Time Alarms with Hourly Summaries

M150s summarize pump run times and pump starts hourly. All alarm data is reported in real-time. Analog data and RTU status are reported hourly. Simultaneous pump runtimes can be reported when two pumps run.

## M850 RTUs

### Real-Time Alarms and Streaming Data

M850s report pump starts and stops in real-time. Analog values are reported every two minutes or on 5% change. Volumetric flow calculations can utilize this information along with sump volume (as determined by an analog level sensor or fixed entries) to calculate hourly volumetric flows.

### Remote Control

Expand your system with optional remote control interfaces such as automatically control offsite wells, tanks, gates, chlorine dosers, variable frequency drives (VFDs) and more with optional remote control interfaces such as the Tank and Well Control system, digital intertie and analog intertie.



### LCD Touch Screen

- Displays current status
- Supports local configuration

### Radio

- Cellular radios support LTE, 4G, 3G, and 2G for both GSM (AT&T and partners) and CDMA (Verizon and partners)
- Dual SIM-capable radio
- No radio licenses or site path studies required

### Expandable

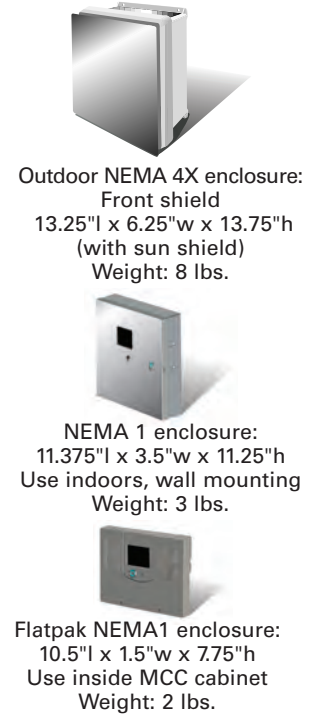
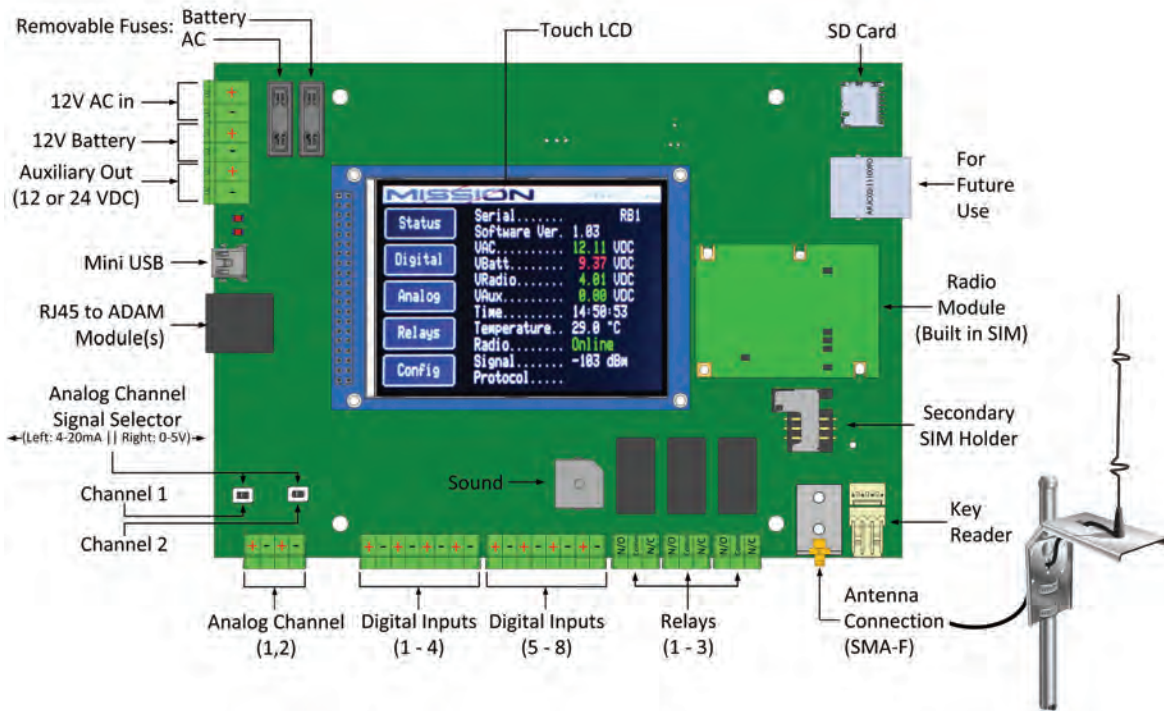
- Up to 16 digital inputs, 6 analog inputs, 2 pulse inputs, and 2 analog outputs, all simultaneously
  - Onboard digital inputs configurable for wire fault supervision or strap on load sensor for easier pump run indication
  - RS485 for digital, analog, and pulse expansion via ADAM Modules

### Enhanced

- 12 or 24 VDC auxiliary output for battery-backed analog instrument loop power
- Over-the-air upgradable firmware

Application	M150	M850
Wastewater	Sewage Lift Station, Industrial WQ Sampler, Pond Level Alarming, Lift Station Generator Alarming	Master SPS Monitoring and Control, WWTP Critical Process Monitoring, Open Channel Flow Monitoring, Sewer Station Power Monitoring, Reuse Water Monitoring and Control
Water	Pump Station Alarming, Reservoir Level Alarming, Remote Valve Alarming, CI Residual (WQ) Alarming, Flow or Pressure Alarming, PRV Station Alarming	Pump Station Monitor, Tank and Multiple Well Control, Remote Valve Monitoring and Control, CI Residual (WQ), Flow or Pressure Monitoring
Other	Gate Status Alarming, Rainfall Monitoring	Septic Offload & Billing, Custody Transfer & Billing, Canal Level Monitoring, and Gate Control, I & I Flow and Level Data Logging

# Technical Specifications



## Model M150

## Model M850

	Model M150	Model M850	
<b>Data</b>	Alarm Data	Real-Time	Real-Time
	Pump State	Summarized hourly	Real-Time
	Analog Reporting	Current value reported hourly	Every two minutes, or on 5% change
	Device Health	Built-in inputs reported hourly	
<b>Input / Output</b>	Digital Inputs	Eight on-board digital inputs (dry) with selectable wire fault supervision, or direct attach load sensor (for easiest pump run indication). Expandable to 16 with ADAM Modules	Up to 8 configurable for pump run. Pump states reported in real-time. Simultaneous pump runtime reporting supported for up to 7 pumps.
	Analog Inputs	Two on-board, 4-20 mA "isolated" or 0-5VDC. Four alarm set points each. Expandable to 6 with ADAM Module.	
	Relay Outputs	Three remotely controllable, form C, dry contact relay outputs, 5 AMPS @ 30 VDC, 120 VAC, SPDT, N.O./N.C.	
	RS485	Support for specified ADAM expansion modules	
	Pulse Inputs	Two-channels with ADAM expansion module	
	Electronic Key Reader	15 minute reporting	2 minute reporting
	Built-in Inputs	Key reader for site activity tracking and service mode.	
<b>Electrical</b>	AC Power	Supervised 120 VAC to 12 VAC, 1.2 amp, UL Recognized Class II / Class III transformer.	
	Backup Power	12V, 5 AH battery standard, with enhanced charging system	
	Auxiliary	Up to 50 hours	Up to 18 hours
	Removable Terminals	Auxiliary output selectable 12VDC or 24VDC for battery-backed analog instrument loop powering. 250 mA max. including, amp henol PN 20020008-G061B01LF (6 pin for power,) 20020004-D081B01LF (D08, D04, D03 for IO)	
<b>Other</b>	Physical	(See top right)	
	Environment	Operating temperature -20C to +85C, non condensing	
	Cellular Radio	Radios make live, continuous, encrypted TCP socket connections. Payload is end-to-end acknowledged. Penta band (850, 900, 1700, 1900, 2100 mHz.) AT&T and partners: LTE, HSPA+. 3G. Verizon and partners: LTE, EVDO, 1XRTT, dual SIM (carrier) capable	
	Antenna	Omni directional antenna with 11' cable, SMA termination, universal mounting bracket	
	Options	Optional SCADA Integration OPC Link (PN SW586) to client/server HMI, Tank and Well Control Package. (See Accessories brochure for more details.)	
	Service	Requires Service Packages for the unit and optional expansion boards. (See Accessories brochure for details.)	
	Warranty	One year manufacturing and material warranty	



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