


<https://www.123mc.com/en/homepage>
[Why Mission Managed SCADA](#)
[Log-In](#)
<https://www.123mc.com/en/homepage>
[Products](#)
[Solutions](#)
[Support](#)
[LIFT STATION \(HTTPS://WWW.123MC.COM/EN/BY-APPLICATION/LIFT-STATION/\)](https://www.123mc.com/en/by-application/lift-station/)
[About Us](#)
[TANK AND WELL \(HTTPS://WWW.123MC.COM/EN/BY-APPLICATION/TANK-AND-WELL/\)](https://www.123mc.com/en/by-application/tank-and-well/)
[Contact Us \(https://www.123mc.com/en/contact/\)](https://www.123mc.com/en/contact/)
[RAINFALL MONITORING \(HTTPS://WWW.123MC.COM/EN/BY-APPLICATION/RAINFALL-MONITORING/\)](https://www.123mc.com/en/by-application/rainfall-monitoring/)
[Log-In](#)
[CSO/SSO \(HTTPS://WWW.123MC.COM/EN/BY-APPLICATION/SSOCO/\)](https://www.123mc.com/en/by-application/ssoco/)
[OPC-UA \(HTTPS://WWW.123MC.COM/EN/BY-APPLICATION/OPC-UA/\)](https://www.123mc.com/en/by-application/opc-ua/)

# MyDro 150, 850

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

The MyDro 150 and 850 have all of the functionality of the [M110](https://www.123mc.com/en/products/m110/) and [M800](https://www.123mc.com/en/products/m800/) with an onboard interactive display and enhanced electronics. Each remote terminal unit (RTU) includes the necessary hardware for a standard installation—such as a cellular radio, enclosure, backup battery, transformer, and an antenna with a cable and mounting hardware. Purpose-built RTUs simplify and speed installation. There is no programming required, and RTUs are self-enrolling.

[View the comparison chart here.](https://www.123mc.com/en/products/)

### Features:

#### 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 set up.

#### Real-Time Alarms Delivered To All Devices

Real-time alarms are delivered via phone call, text message, email, fax, page, and even to an existing HMI software via an OPC data link. Each alarm is logged with a timestamp for tracking and reporting. The alarm call-out schedule setup is easy, flexible, and intuitive, which allows it to be as simple or sophisticated as users require.

#### Managed Service—the Complete Package

The Mission system includes cellular data service, data storage, alarm call-outs, reports, and technical support that is on call 24-7-365. 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 data and reports using the Mission 123SCADA web portal, accessible on any web-enabled device. 123SCADA is the Mission user interface designed with the look and feel of industry-standard HMI SCADA that many 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.

#### MyDro 150 RTUs

##### Real-Time Alarms with Hourly Summaries

The MyDro 150 summarizes analog data, RTU status, pump run times, and pump starts hourly. All alarm data is reported in real-time. Simultaneous pump runtimes can be reported when two pumps run.

**MyDro 850 RTUs**  
**MISSION COMMUNICATIONS**  
 Real-Time Alarms and Streaming Data  
<https://www.123mc.com/en/homepage>

[Why Mission Managed SCADA](#) ▼

The MyDro 850 reports pump starts and stops in real-time. Analog values are reported every two minutes or on a 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.

[Products](#) ▼

[Solutions](#) ▼

### Remote Control

[Support](#) ▼

System capabilities may be expanded with optional remote control interfaces, such as automatically controlling offsite wells, tanks, gates, chlorine dosers, variable frequency drives (VFDs), and more, with optional remote control interfaces such as the Tank and Well Control Package, Digital Interconnect, and Analog Interconnect.

[About Us](#) ▼

[Contact Us](https://www.123mc.com/en/contact/) <https://www.123mc.com/en/contact/>

[Log-In](#)



### 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)
- ✓ No radio licenses or site path studies required

### Expandable Input/Output

- ✓ Up to 16 digital inputs, 6 analog inputs, 4 pulse inputs, and 2 analog outputs, all working simultaneously



Onboard digital inputs configurable for wire fault supervision or strap on current sensing switch for easier pump run indication  
<https://www.123mc.com/en/homepage> [Why Mission Managed SCADA](#) ▼

RS485 for digital, analog, and pulse expansion via expansion modules  
[Products](#) ▼

#### Enhanced

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

[Solutions](#) ▼

[Support](#) ▼

[About Us](#) ▼

[Download Product Data Sheet \(https://www.123mc.com/wp-content/uploads/2019/09/DataSht\\_M150-M850\\_MyDro-LR.pdf\)](https://www.123mc.com/wp-content/uploads/2019/09/DataSht_M150-M850_MyDro-LR.pdf)

[Contact Us](#)

[Log-In](#)

## Technical Specifications

### MyDro 150 RTU

#### Data

- Alarm data: real-time
- Pump information: pump run times and starts summarized hourly
- Analog reporting: current value reported hourly
- Device health: built-in inputs reported hourly

#### Input/Output

- Digital inputs: 8 onboard digital inputs (dry) with selectable wire fault supervision, or direct attach current sensing switch (for easiest pump run indication); expandable to 16 with expansion modules; 3 configurable for pump run summary reporting (number of starts and run time each hour); simultaneous runtimes reported when 2 pumps are monitored
- Analog inputs: 2 onboard, 4–20 mA isolated or 0–5 VDC; 4 alarm set points each; expandable to 6 with expansion module
- Relay outputs: 3 remotely and locally controllable, form C, dry contact relay outputs, 5 A at 30 VDC, 120 VAC, SPDT, N/O or N/C
- RS485: support for specified expansion modules
- Pulse inputs: 2 channels with expansion module and 15-minute reporting
- Electronic key reader: key reader for site activity tracking and service mode
- Built-in inputs: AC voltage, battery voltage, board temp, and signal strength; optional second (removal) key reader

#### Electrical

- AC power: supervised 120 VAC to 12 VAC, 1.2 A, UL-recognized class II/class III transformer
- Backup power: 12 V, 5 Ah battery standard, with enhanced charging system—up to 50 hours
- Auxiliary: auxiliary output selectable 12 VDC or 24 VDC for battery-backed analog instrument loop powering—250 mA max
- Removable terminals, including: Amphenol PN 20020008-G061B01LF (6 pin for power), 20020004-D081B01LF (D08, D04, D03 for IO)

#### Other

- Environment: operating temperature -20–75°C, 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: omnidirectional 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 Catalog for more details)
- Service: requires service packages for the unit and optional expansion boards (see Accessories Catalog for details)
- Warranty: 1 year manufacturing and material warranty

### MyDro 850 RTU

#### Data

- Alarm data: real-time

- Pump information: real-time

**MISSION** [\(https://www.123mc.com/en/homepage/\)](https://www.123mc.com/en/homepage/)

[Why Mission Managed SCADA](#) ▼

- Analog reporting: every 2 minutes or on 5% change

- Device health: built-in inputs reported hourly

[Products](#) ▼

### Input/Output

[Solutions](#) ▼

- Digital inputs: 8 onboard digital inputs (dry) with selectable wire fault supervision, or direct attach current sensing switch (for easiest pump run indication); expandable to 16 with expansion 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: 2 onboard, 4–20 mA isolated or 0–5VDC; 4 alarm set points each; expandable to 6 with expansion module
- Relay outputs: 3 remotely controllable, form C, dry contact relay outputs, 5 A at 30VDC, 120VAC, SPDT, N/O or N/C
- RS485: support for specified expansion modules
- Pulse inputs: 2 channels with expansion module and 2-minute reporting
- Electronic key reader: key reader for site activity tracking and service mode
- Built-in inputs: AC voltage, battery voltage, board temp, and signal strength; optional second (removal) key reader

[Support](#) ▼

[Accessories](#)

[Contact Us](https://www.123mc.com/en/contact/) [\(https://www.123mc.com/en/contact/\)](https://www.123mc.com/en/contact/)

[Log-In](#)

### Electrical

- AC power: supervised 120 VAC to 12 VAC, 1.2 A, UL-recognized class II/class III transformer
- Backup power: 12 V, 5 Ah battery standard, with enhanced charging system—up to 18 hours
- Auxiliary: auxiliary output selectable 12VDC or 24VDC for battery-backed analog instrument loop powering—250 mA max
- Removable terminals, including: Amphenol PN 20020008-G061B01LF (6 pin for power,) 20020004-D081B01LF (D08, D04, D03 for IO)

### Other

- Environment: operating temperature -20–75°C, 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: omnidirectional 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 Catalog for more details)
- Service: requires service packages for the unit and optional expansion boards (see Accessories Catalog for details)
- Warranty: 1 year manufacturing and material warranty

## You're Never Alone

You will receive experienced technical support, including access to the people that built the system if needed. This includes comprehensive training, regular webinars, live support during business hours and after-hours support that is always available on a responsive callback basis for emergencies—at no extra charge.

[Request Demo \(https://www.123mc.com/en/contact/\)](https://www.123mc.com/en/contact/)

**SCADA Made Simple 1-877-993-1911 (tel:+18779931911)**

[RESOURCES](#)

[SITEMAP](#)

[NEWSLETTER \(HTTPS://WWW.123MC.COM/EN/SUPPORT/NEWSLETTER/\)](https://www.123mc.com/en/support/newsletter/)

[View Newsletter \(https://www.123mc.com/en/support/newsletter/\)](https://www.123mc.com/en/support/newsletter/)

[WEBINAR \(HTTPS://WWW.123MC.COM/EN/SUPPORT/WEBINARS/\)](https://www.123mc.com/en/support/webinars/)

[View Schedule \(https://www.123mc.com/en/support/webinars/#webinar-schedule\)](https://www.123mc.com/en/support/webinars/#webinar-schedule)

Copyright 2019 Mission Communications, All Rights Reserved. | [Terms and Conditions \(https://www.123mc.com/en/terms-and-conditions/\)](https://www.123mc.com/en/terms-and-conditions/)

**MISSION** [COMMUNICATIONS \(https://www.123mc.com/en/homepage\)](https://www.123mc.com/en/homepage)

[Why Mission Managed SCADA](#) ▼

[Products](#) ▼

[Solutions](#) ▼

[Support](#) ▼

[About Us](#) ▼

[Contact Us \(https://www.123mc.com/en/contact/\)](https://www.123mc.com/en/contact/)

[Log-In](#)