

MyDro 50 – The Perfect Fit for Remote Monitoring and Control

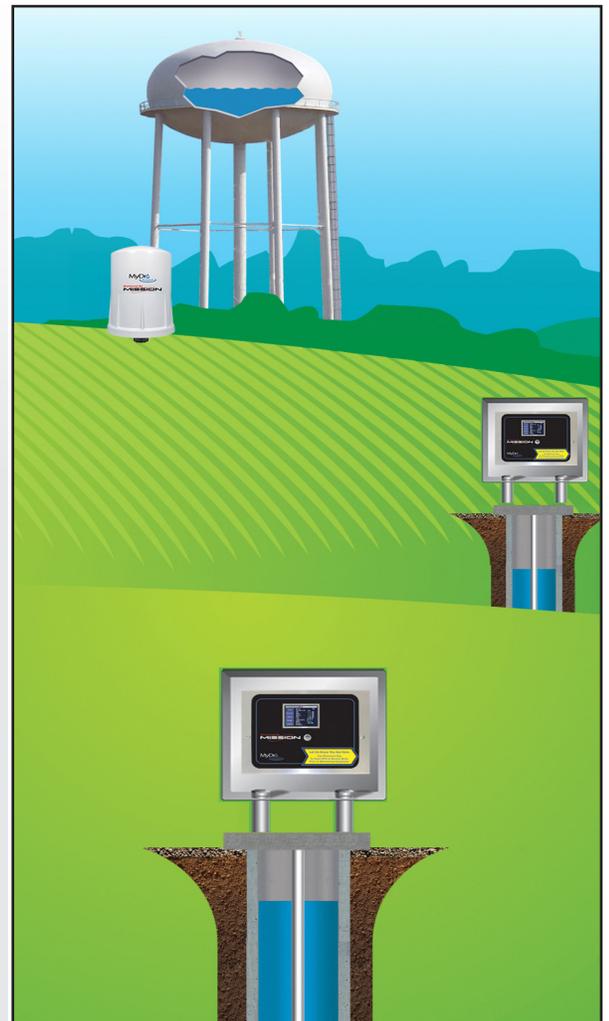
Take control of your water operations like never before! The MyDro 50 puts rainfall, water pressure, flow and level readings from across your system right at your fingertips. You can also deploy the MyDro 50 as part of your larger automated remote control systems for Tank & Well operations.

The MyDro 50 combines extended battery life, reliable cellular connectivity, and a compact, low-cost footprint to eliminate blind spots in your water system. Acting as both a versatile sensor platform and a remote terminal unit (RTU), it delivers critical data and control capabilities directly to your computer, phone, or tablet keeping your operations visible and responsive from anywhere.



Performance Features

- **Easy Install:** All necessary hardware included, no programming required, RTUs are self enrolling.
- **Secure Data Connectivity:** Multiple carriers supported (including AT&T, Verizon, T-Mobile, and others) with no cellular contracts to set up.
- **Alarm/Event Reporting:** Within two minutes, including email, text message, voice call, and others.
- **Long Battery Life:** Up to five years, depending on transmission frequency.
- **Robust:** Designed to withstand harsh conditions.
- **Weather Resilience:** Uninterrupted cellular connection, even during rain events or bad weather.
- **Data Reliability:** Provides precise and reliable readings through entire operating range.
- **Software Updates:** Available over-the-air for no additional cost.
- **Two-Way Communication:** Enables remote device configuration settings management for enhanced control.
- **Managed Service—The Complete Package:** Data storage, customizable alarm schedule, reports, and 24/7/365 technical support.
- **Sensor Power:** Able to power the connected level (hydrostatic, ultrasonic, or radar) and pressure sensors.



Technical Specifications

Battery Pack: Four D-cell lithium thionyl chloride, 76Ahr

Environmental Considerations

- Operating temp: -40 to +185°F (-40 to 85°C)
- Humidity: 0% - 100% condensing

Data Interface

- LTE CAT M1 / NB-IoT, auto-selectable
- SparkPlug messaging

Safety Rating: Class 1 Division 2 Certified, Groups A, B, C, D. Temperature Code T5. Certified to CSA C22.2 No. 213:2017, Conforms to UL 121201:2017, CE Approved

Cellular Radio Power: 23dBm

Antenna Type: LTE with Internal GPS

Cellular Specifications:

- SIM included
- Power saving features: via eDRX
- PTCRB certified

Inputs and Output

- 1 latching relay output (2A @ 30Vdc)
- 3 digital inputs report state, total counts
- 3 analog input (passive or active): 4-20mA, 0-5V
- 13V or 18V provided to attached sensor(s)
Maximum current of 60mA

Tank and Well: 1 runtime and 1 status available

Flow:

- Totalized from pulse inputs from a flow meter
- Analog integrated flow calculated from an analog signal

Electrical Connection: Pluggable terminal block, 16-30AWG screw terminals

Wall Mount (M52)

Enclosure: Industrial polycarbonate UV rated, IP68 Ingress Protection

Weight with Battery: 2 lbs, 15oz



Node (M54)

Enclosure: Industrial polycarbonate UV rated, IP67 Ingress Protection

Weight with Battery: 2 lbs



Rainfall Monitoring (M54R)

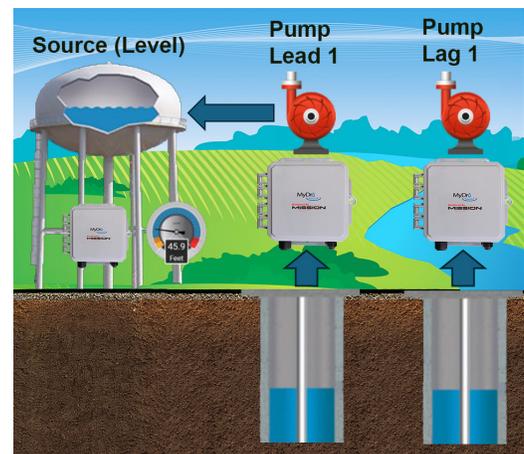
RTU Specifications

- **Enclosure:** Industrial polycarbonate UV Rated; IP67
- **Digital Inputs:** Two digital inputs—dry contact for tipping bucket—reports on state change
- **Weight with Battery:** 2 lbs
- **Dimensions:** Height: 7.1 in (198 mm), diameter 4.6 in (102 mm)

Included with the MyDro 54R RTU

- Rain tipping bucket with cable
- Mounting plate with screws
- U-clamp and mounting bracket
- Base stand

Tank and Well with Runtime



Use the MyDro50 Wherever You Need to Monitor Water



Rainfall Monitoring

The MyDro 54R rainfall monitoring solution, requiring no grid power or network wire, provides long-term rain totals. It connects to the 123SCADA portal and the included rain tipping bucket, enabling live monitoring of rain intensity, especially crucial during storm seasons. It helps users understand the sewer system characteristics and take performance improvement actions.



Water Flow Monitoring

The MyDro 50 delivers dependable flow monitoring using pulse flow meters or analog integrated flow signals to calculate totalized flow. Flow data is transmitted to the 123SCADA for real-time and historical visibility on desktop and mobile devices. Configurable alarms, including high-flow and no-flow conditions, help operators quickly detect issues, reduce water loss, and respond proactively. Integrated reporting and data export support operational analysis and regulatory reporting from anywhere.



Tank and Well

The MyDro 50 is an ideal component for Mission's Tank and Well application. It can monitor any type of tank level—elevated, ground storage, or otherwise—and deliver essential data to the Tank and Well service, enabling automated pump cycle control to ensure consistent water supply. Designed with affordability in mind, the MyDro 50 RTU is especially well-suited for single-pump wells providing one runtime input and one status input, helping to reduce the overall cost of well field control systems without compromising performance.



Reservoir Monitoring

The MyDro 50 is an ideal choice for monitoring and reporting levels of reservoirs, lakes, rivers, and other surface waters. It offers compatibility with a variety of sensors, including submersible and non-contact types.

Proactive Alarms • Comprehensive Data • Accessible From Anywhere



- Incorporate seamlessly with all Mission devices using 123SCADA or integrate into customer's traditional SCADA system
- Integrate with most traditional HMIs and modeling software with OPC-UA
- Install Mission device in one morning, and start controlling costs
- Leverage more control over your system to increase performance identify system issues on any device, while on the go
- Simplify compliance reporting
- Increase efficiency by deploying staff only when needed
- Monitor your water/wastewater system from anywhere



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