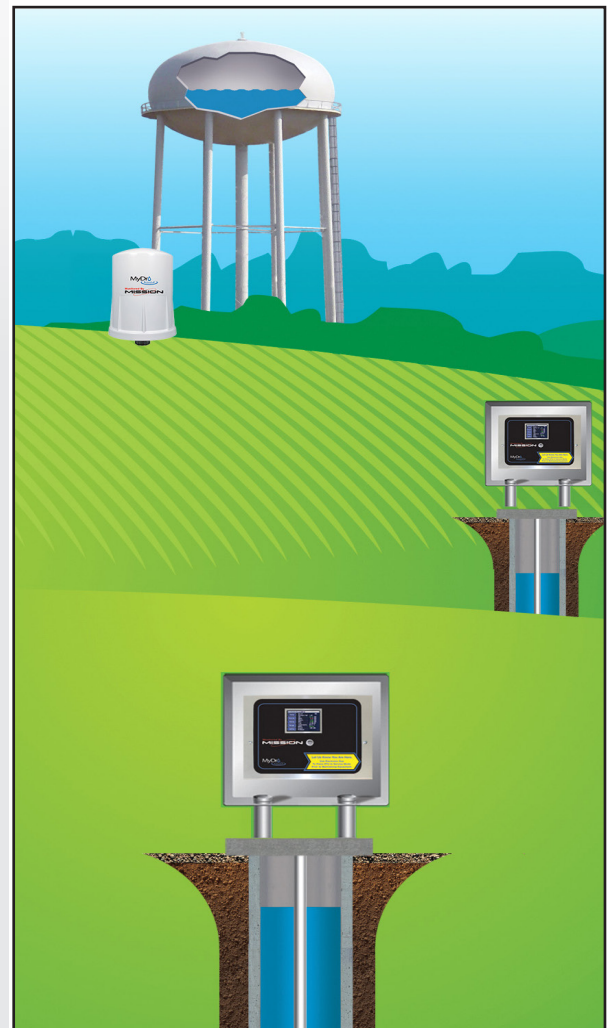


# The Perfect Fit to Monitor Rainfall, Water Pressure, and Levels; Tank & Well Application

The Mission MyDro 50 is designed for monitoring pressure, rainfall, and level readings anywhere on your utility map. With an extended battery life, cellular connectivity, small footprint, and low cost, the versatile MyDro 50 can fill any blind spot in your water system, delivering key measurements to your computer, phone, or tablet.

## 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 of worry-free operation, no AC wiring required.
- **Robust:** Designed to withstand harsh conditions.
- **Weather Resilience:** Uninterrupted cellular connection, even during rain events or bad weather.
- **Data Integrity:** Provides precise and reliable readings through entire operating range.
- **Communication Features:** Network details, transmit and receive specifications.
- **Two-Way Communication:** Enables remote 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 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; 0.3A @ 110Vac; 0.5A @ 125Vac)
- 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

**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



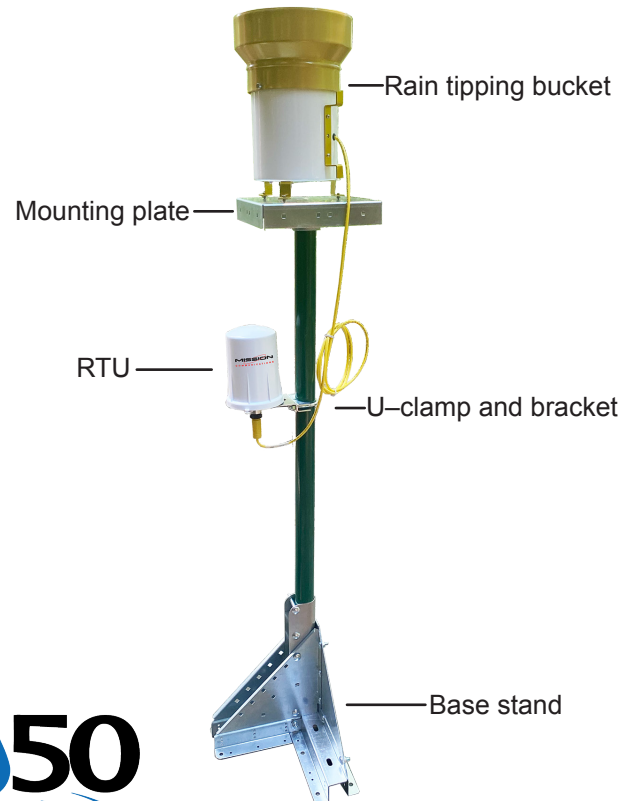
## Rainfall Monitoring (M54R)

### 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



# 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.



## Pressure Relief & Pressure Reducing Valve Monitoring

The MyDro 50 wireless solution monitors the PRV system, tracking pressure and water levels, enhancing safety, and reducing unnecessary truck rolls. It provides historical data and alarms for continuous pressure monitoring in the distribution network. The 123SCADA web portal offers dashboards, sends notifications to field personnel, and supports two-way communication for data retrieval and instant SMS alarm notifications.



## Tank and Well

The MyDro 50 can be applied to the Mission Tank and Well application. It monitors any tank or tower level (Source) and automatically signals pump cycles to maintain water supply. In cases where customer budget is constrained, and having runtime reports is not deemed to be mission-critical, the MyDro 50 can also be used as Destination RTU (at Pump/Well) in an effort to make the system more affordable.



## 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



**Contact Us**



877.993.1911 • Sales@123mc.com  
**123mc.com**