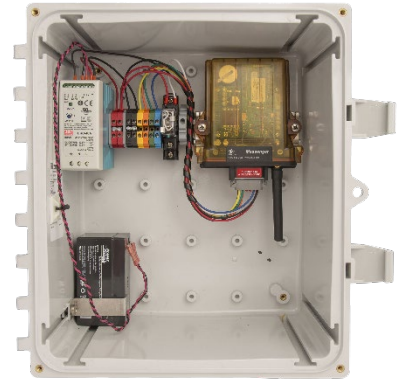# CATTRON

MESSENGER™

MESSENGER W
REMOTE MONITORING DEVICE

HIGHLIGHTS

- Wireless monitoring solution for small water and wastewater applications
- Applications include tanks, flow meters and smaller lift or pump stations.
- Reduces operating costs by reporting critical events, automating reports and minimizing site visits
- Monitors data and uses RemoteIQ to manage alarm notifications, system status and reports
- Peer-to-peer options for tank-to-well monitoring and control (utilize with Aquavx system)

FEATURES

- Alarm notifications via email, text message or voice calls
- Three digital or pulse inputs capable of monitoring level, pumps, run-times or cycles and computing flow rates
- One analog input for monitoring flow, level, temperature, pH, UV or any other type of current input
- One Form C 12A relay output can be controlled remotely to turn a field device on or off, or used to activate a local audio or visual device such as a horn or light based on a critical event
- LTE cellular modem
- Status LEDs for power, alarms and modem communication
- Terminal blocks for easy wiring
- Achieve optimal equipment performance with RemoteIQ:
  - Manage reports, alarm notifications, configuration changes and user login credentials
  - Remotely monitor and control pumps, valves and other field devices
  - View historical data, current alarms and trends

OPTIONS

- NEMA 4X or DIN-rail mount
- High-gain OMNI antenna kit
- 50' antenna cable
- Solar kit with accessories for powering the Messenger W
- Camera for incident-based events via on-demand snapshots that become historical data

CONNECT. CONTROL. PROTECT.

TECHNICAL DATA AND SPECIFICATIONS

MECHANICAL DATA

Weight	DIN-rail mount: 2.5lbs; NEMA 4X: 8.0lbs
Enclosure	NEMA 4X or DIN-rail mount
Dimensions W x H x D	DIN-rail: 15.0" x 4.1" x 6.5" NEMA 4X: 12.68" x 14.68" x 7.47"
Operating Temperature	-40° to +70° C (-40° to +158° F) Modem Op Temp: -40° to +85° C (-40° to +185° F)
Humidity	0-90% non-condensing @ +40° C (+104° F)
Serial Port	RS484/RS232
Cellular Modem	LTE/CATM1: dual modem utilizing AT&T or Verizon Worldwide: FCC, PTCRB and AT&T certified
Warranty	One-year limited

INPUTS/OUTPUTS

Analog Inputs	1 analog input (0-1V, 0-5V, 0-10V, 4-20mA)
Digital Inputs	3 digital/pulse inputs, dry contacts or closure to ground, 0-10 Hz
Relay Outputs	1 Form C relay, NO/NC, 12A @ 120/230 VAC or 28 VDC

ELECTRICAL DATA

Pulse Input Parameters	Between 10-90% (inclusive) duty cycle at a maximum frequency of 1000 Hz (1msec period) Max=32 VDC, greater than or equal to 2.5 VDC is a pulse high, less than or equal to 1.1 VDC is a pulse low
Battery Backup	12 V, 24-hour rechargeable sealed lead acid battery, 12-hour minimum
Power Supply	100-240VAC to 13.8 VDC, 50-60 Hz, 1.9A, DIN-rail mounted, UL-rated
Modes	Sleep mode: less than 6 mA @ 12 VDC Monitoring mode: 70 mA @ 12 VDC LTE transmit mode: 400 mA peak @ 12 VDC
Electrical Protection	Solid-state surge protection is provided on digital input, analog input and serial port. All fuses are solid-state automatic resettable, requiring no maintenance
Field Wiring	All I/O wiring is to terminal blocks (10-24 AWG)