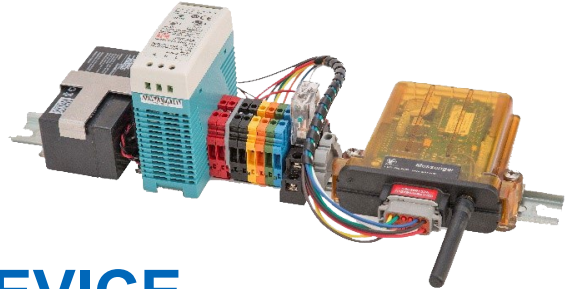


MESSENGER™



MESSENGER 600 REMOTE MONITORING DEVICE

HIGHLIGHTS

- The Messenger 600 is an integrated gateway providing remote monitoring of up to 600 data points from any device over an RS485 serial connection utilizing Modbus RTU protocol
- Acts as a Modbus RTU Master that polls data from a PLC or Modbus device and communicates that data to the RemotelQ™ website for managing critical alarms, reports, and trending historical data
- Ideal for larger plant applications such as water and wastewater, hydroelectric, power, unmanned plants and applications with a significant number of inputs that need to be monitored at a central location and interfacing with a Modbus device for data and critical alarms

FEATURES

- Digital and analog values are automatically reported on change-of-state to RemotelQ for viewing status and alarm notification remotely
- LEDs provide the status of power, alarms and modem communication
- User-friendly tools for configuring Modbus registers via OTA
- Digital values are read using either Read Coil function codes or Packed bits in a 16- or 32-bit word. When a digital value changes state for a user-specified number of seconds, it is reported to the web-based backend
- Digital values are written using the Write Coil function and automatically returned to the backend as a confirmation that the action was performed
- Analog values are read using 16- or 32- bit function codes that include Read Holding, Read Input and Float
- Non-float values can be converted to floating-point values in the Messenger by specifying bit-weights, offsets and signed or unsigned settings
- RemotelQ provides a comprehensive user interface for viewing system status, generating reports, trending events and historical data and managing critical alarm notifications

OPTIONS

- Camera for incident-based events via on-demand snapshots that become historical data
- Solar kit with accessories for powering the Messenger 600
- High gain OMNI antenna
- 50' antenna cable





TECHNICAL DATA AND SPECIFICATIONS

ELECTRONIC DATA	
Battery Backup	12 V, 24-hour rechargeable sealed lead acid battery, 12-hour minimum
Power Supply	100-240 VAC to 13.8 VDC, 50-60 Hz, 1.9A, DIN-rail mount, UL-rated power supply
Modes	Sleep mode: less than 8 mA @ 12 VDC Monitoring mode: 40 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
Digital Function Codes	Read coil, read status, write coil
Analog Function Codes	Read packed bits in 16- and 32-bit Write holding 16- and 32-bit Read packed bits and holding Read input 16- and 32-bit Read float (32-bit) Write multiple holding
System Conditions	Power fail, low backup battery, alarms and modem communication loss
Field Wiring	To terminal blocks (10-24 AWG)

INPUTS/OUTPUTS	
Modbus I/O	Modbus RTU: Up to 600 registers Modbus ID Supported: 1-247

MECHANICAL DATA	
Weight	DIN-rail 2.5lbs NEMA 4X 8lbs
Enclosure	NEMA 4X or DIN-rail mount
Dimensions W x H x D	DIN-rail: 15" x 4.1" x 6.5" NEMA 4X: 14.68" x 12.68" x 7.47"
Operating Temperature	-40 to 85° C (-40 to 185° F) Modem Op Temp: -40 to 85°C (-40 to 185° F)
Humidity	0-90%, non-condensing @ +40° C (+104° F)
Serial Port	1 RS485, 1200-115200 Baud, supports Modbus master
Cellular Modem	LTE/CATM1 dual modem utilizing AT&T or Verizon
Warranty	One-year limited

CERTIFICATIONS	
End User Applications	FCC, IC, PTCRB and ATT approvals
Operating Vibration	Exceeds SAE J1455 vibration levels
Operating Shock	Exceeds SAE J1455 shock levels
RoHS Compliant	Yes

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