

ELITEIQ™



CLOUD-BASED MONITORING FOR LARGE SYSTEMS

HIGHLIGHTS

- SCADA-like capabilities for large industrial and municipal water and wastewater applications
- User-defined and configured with any combination of digital and analog inputs, relay outputs and Modbus RTU PLC channels to meet application requirements
- Field upgradeable and expandable I/O with additional input/output cards or Modbus PLC channels
- Manage data, alarms, callout roster and reports by utilizing the RemotelIQ™ website on your mobile or desktop devices

FEATURES

- Monitor up to 48 dry contacts or digital inputs, analog inputs or up to 72 Modbus PLC channels.
- Combine discrete I/O with Modbus PLC channels (optional)
- Alarm notifications via email, text message or voice calls
- Alarm conditions:
 - Change of state
 - Limits
 - Rates of change
 - Run-time or cycle limits
- Automated control functions based on set points and conditions
- Local user interface via keypad and display
- Scheduled or on-demand reports via email

OPTIONS

- Modbus RTU Slave allows bi-directional access from SCADA and HMI software giving you complete access to all inputs and outputs through an RS-232/485 serial port
- Modbus RTU Master allows for reading/writing directly to a PLC or Modbus slave device over a serial Modbus link
- Optional 8-channel digital and analog input cards, 4-channel relay output cards with a maximum of 48 inputs or 24 outputs
- NEMA 4X enclosure with clear door and panel/flush mount metal enclosure
- Camera for incident-based events via on-demand snapshots that become historical data





TECHNICAL DATA AND SPECIFICATIONS

MECHANICAL DATA	
Weight	Flush/Panel mount: 10.6lbs NEMA 4X: 15.2lbs Modem kit in NEMA 4X: 3.2lbs
Enclosure	NEMA 4X, flush mount or sub-panel mount
Dimensions W x H x D	Panel mount: 10.25" x 12.5" x 5.0" Front mount enclosure: 8.0" x 9.0" x 2.0" NEMA 4X: 12" x 13.75" x 6.25" Modem 4X Enclosure: 9.0" x 8.0" x 2.0"
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	Two serial ports: RS485/RS232
Cellular Modem	LTE/CATM1 dual modem utilizing AT&T or Verizon
Warranty	Five-year on the EliteIQ, one-year on the modem

ELECTRICAL DATA	
Battery Backup	12V, 24-hour rechargeable sealed lead acid, 12-hour minimum
Power Supply	90-264 VAC to 24 VDC, 47-63Hz, 1.67A, open frame mount, UL rated
Modes	Run Mode: Average current draw is 115 mA with backup battery fully charged. Max current draw is 1A during CELL transmit. Add 15 mA per analog/digital I/O card, add 300 mA per relay card (all relays energized)
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 uses quick-disconnect pluggable connectors (12-24 AWG)

INPUTS / OUTPUTS	
Analog Inputs	8-48, 8 per input card, 4-20mA, 0-1V, 1-5V, 1-10V
Digital Inputs	8-48, 8 per input card, dry contact or digital, 5-24V, NO/NC
Relay Outputs	4-24, 4 per output card, 8A @ 125VAC, 5A @ 30 VDC
Modbus I/O	Maximum of 72 Modbus RTU PLC channels in increments of 8 (these can be combined with discrete I/O cards)

North America: +1.234.806.0018 | Sales.US@Cattron.com

Europe: +49.2151.4795.0 | Sales.EU@Cattron.com

UK: +44.1932.238121 | Sales.UK@Cattron.com

South America: +55.19.3518.7030 | Sales.BR@Cattron.com

Asia: Sales.CN@Cattron.com

Oceania: Sales.AU@Cattron.com

cattron.com

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