



H8238 Series

**BACNET
CONNECTIVITY
Via E8951 GATEWAY**



H8238

MONITOR EIGHT 3-PHASE CIRCUITS WITH ONE DEVICE

DESCRIPTION

The **H8238 Multi-Circuit Monitor** power monitoring system provides a convenient solution for monitoring multiple electrical services that share a common voltage source. It also reports diagnostic information such as power factor, volts, amps, and kVAR, over an RS-485 network using the industry standard Modbus communication protocol. To protect valuable equipment, it has built-in alarm registers for over- and under-voltage, current, and kVA.

The monitoring capabilities and open systems compatibility of the H8238 make it an ideal power monitoring solution for OEM, tenant submetering applications, & load management of power distribution units commonly used in internet data centers.

FEATURES

- Revenue Grade measurements
- Save labor and installation costs by monitoring up to eight 3Ø, (or six 3Ø plus neutral current) loads from a single service with common voltage connections
- Minimizes the need to install multiple transducers – fewer components to install...saves time and space
- Easily connect up to 24 industry standard 5A CTs (solid-core and/or split-core)
- Modbus communication for efficient data collection
- Improve monitoring system efficiencies by accessing 26 data points per circuit, plus alarms, with one RS-485 drop
- Daisy chain up to 30 units on a single drop...easy wiring
- Field-selectable address, baud rate, parity and wiring connections...simple configuration
- Use with E8951 gateway for BACnet connectivity...expanded system compatibility
- Use with U013-0012 serial to ethernet protocol converter...easy system integration

SPECIFICATIONS

Agency Approvals	UL508, EN61010-1, Cat. III, pollution degree 2
INPUTS:	
Control Power	(90 to 132 Vac); (180 to 264 Vac for H8238E), 50/60 Hz
VOLTAGE INPUT	
Maximum Voltage	480 Vac +10% = 528 Vac
Frequency	60 Hz
CURRENT INPUT	
Number of Channels	24 (8 meters x 3 phases/meter), 6 meters if neutral monitored
CT Input Type	5 Amp (customer supplied)
CT Range	Each 3-phase circuit is independently configurable from 1 to 9999 A (using 5 A output CTs)
ACCURACY	
Accuracy	±1% when amperage is at 10% to 100% of range (exclusive of user-supplied CTs)
Sample Rate	1280 Hz
Variable Update Rate	200 msec for voltages, 1.6 secs for all other
OUTPUTS	
Type	RS-485 Modbus RTU
Connection	DIP-switch selectable 2-wire or 4-wire
Address	DIP-switch selectable base address (1 to 233 in steps of 8). Each H8238 has 8 Modbus addresses.
Baud Rate	DIP-switch selectable 2400, 4800, 9600, or 19200
Parity	DIP-switch selectable NONE/ODD/EVEN
Communication Format	8 data bits, 1 start bit, 1 stop bit
Termination	5-position pluggable connector
ENVIRONMENTAL	
Altitude of Operation	3000 m
Operating Temp Range	0 to 60 °C (32 to 140 °F)
Storage Temp Range	-40 to 70 °C (-40 to 158 °F)
Humidity Range	0 to 95% non-condensing
ENVIRONMENTAL	
Limited Warranty	5 years

APPLICATIONS

- Tenant submetering
- Real-time power monitoring
- Activity-based costing
- Managing loads

ACCESSORIES

AL, BL, CL 5AAC Solid-Core Current Transformers
H681x-5A Split-Core Current Transformers
Modbus-to-BACnet Converter (E8951)
Modbus TCP Gateway (U013-0012)



H681x-5A



AL



BL



CL



U013-0012



E8951

