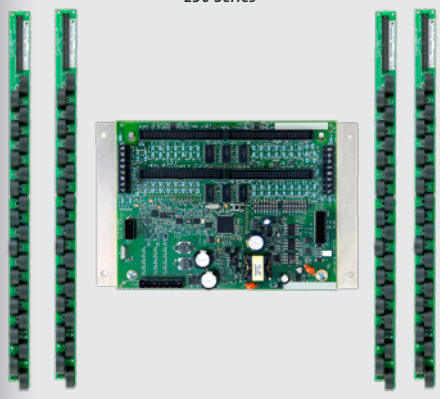
MONITOR CURRENT, VOLTAGE, AND ENERGY CONSUMPTION WITH ONE DEVICE

5 Year Warranty

E30 Series



Monitor up to 92 circuits

Panelboard Monitoring System

The **E30 Series** Panelboard Monitoring System provides a cost effective solution for electrical load management, making it ideally suited for applications where loads are dynamic, such as the data storage industry, lighting panels, etc.

The E30 series monitors the current, voltage, and energy consumption of each circuit in a panelboard including the main breaker. The accumulated information can be transmitted through the communications interface or viewed locally through an optional local display. Data updates occur roughly every two seconds to provide timely preventative maintenance information. As a circuit approaches the user-configured thresholds, alarm indicators are triggered, preventing costly downtime from overloaded circuits or failed loads. (See graph below)

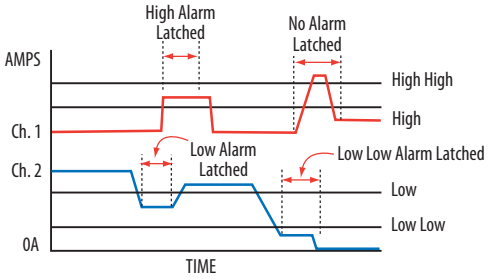
APPLICATIONS

- Load based cost allocation
- Overload protection
- Load management
- Load balancing
- Lighting circuits

A compact solution for panelboard monitoring

- IEC Class 1 metering accuracy
- Up to 126 panelboards can be monitored on one RS-485 drop...simplifies wiring
- Reports volts, amps, power, and energy for each circuit...one product covers the whole panelboard
- 92 circuits with one product (84 branch circuits, 2 3-phase mains, 2 neutrals)...saves space
- 3/4" (Square D) or 1 inch (GE) spaced current sensors... flexible installation
- 4 user-configurable alarm threshold registers... improved load management
- Built-in ability to set the orientation and numbering of the circuits
- 1/4 amp to 100 amp monitoring...widest dynamic range in the industry
- 1, 2, 3 pole breaker support

OPERATION EXAMPLE



SPECIFICATIONS

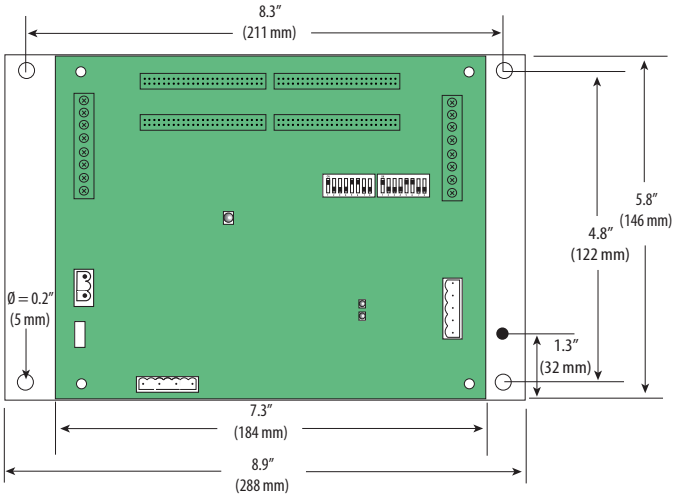
Performance:	
System Accuracy (Branch Circuits Included)	
Current	1% of reading from 2.0-100A, 2% of reading from 0.25-2A
Power	3% of reading from 1-100%
Mains Accuracy	
Voltage	1% of reading from 90-277V Line to Neutral
Power (Aux Input)	IEC 61036 Class 1, ANSI C12.1-2001
Current (Aux Input)	2% of reading from 1-10%, 1% of reading from 10-100% (0.333VAC)
Operation:	
Frequency	50/60 Hz
Sampling Frequency	2560 Hz
Update Rate	1.8 seconds (both meters)
Overload Capability	10kAIC
Input Power	90-277VAC
Ribbon Cable Support	4 ft. (0.9m) ships standard; up to 20 ft. (6 m) available
Operating Temperature Range	0° to 60°C (32° to 140°F) (<95% RH, non-condensing)
Storage Temperature Range	-40° to 70°C (-40° to 158°F)
Network Communications:	
Type	Modbus RTU
Connection	DIP switch-selectable 2-wire or 4-wire, RS-485
Address	DIP switch-selectable address 1 to 247 (in pairs of 2)*
Baud Rate	DIP switch-selectable 9600, 19200, 38400
Parity	DIP switch-selectable NONE, ODD, EVEN
Communication Format	8-data-bits, 1-start-bit, 1-stop-bit
Termination	5-position depluggable connector (TX+ TX- SHIELD TX+/RX+ TX-/RX-)

Note: Standard IEC62053-21 Table 8 temperature coefficients apply for temperatures above and below 25°C.
** See Configuration section for details*

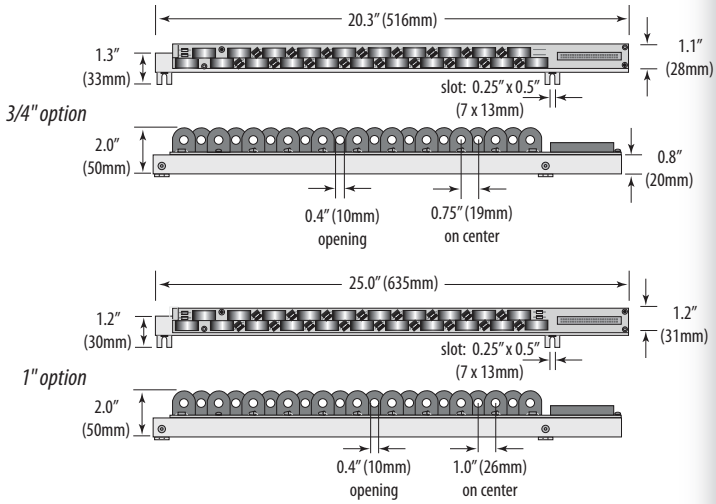
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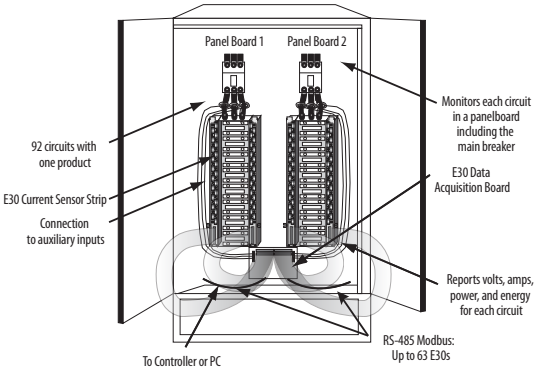
DIMENSIONAL DRAWINGS

Circuit Board and Mounting Bracket



Current Sensor Strip





Free configuration tool available at www.veris.com

DATA OUTPUT

Monitoring at Mains	E30A (Advanced)	E30B (Intermediate)	E30C (Basic)
Current per phase	■	■	■
Max. current per phase	■	■	■
Current demand per phase	■	■	■
Max. current demand per phase	■	■	■
Energy (kWh) per phase	■	■	
Real Power (kW) per phase	■	■	
Power factor total *	■	■	
Power factor per phase	■	■	
Voltage - L-L and average	■	■	
Voltage - L-N and average	■	■	
Frequency (phase A)	■	■	
Monitoring at Branch Circuit			
Current	■	■	■
Max. current	■	■	■
Current demand	■	■	■
Max. current demand	■	■	■
Real power (kW)	■		
Real power (kW) demand	■		
Real power (kW) demand max.	■		
Energy (kWh) per circuit	■		
Power factor	■		
Modbus Alarms			
Voltage over/under	■	■	
Current over/under	■	■	■

** Based on a 3-phase breaker rotation.*

ORDERING INFORMATION

CE cULus

	Description	CT Option	# of CTs
E30	A = Advanced B = Intermediate C = Basic	0 = 100A, 3/4" spacing 1 = 100A, 1" spacing	42 = 2 strips* 84 = 4 strips*

**Each strip contains 21 current sensors.*

Example:

E30 | A | 0 | 42

Branch Current with Auxiliary Power, 2 strips with 3/4″ spacing

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