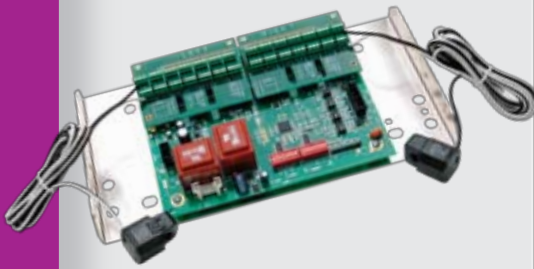


MONITOR CURRENT ON EACH CRITICAL BREAKER IN A PANELBOARD



H663E



Monitor current draw on dynamic loads

Branch Circuit Monitors, Split-core

The H663 Series split-core branch circuit current monitoring system provides a cost-effective solution for electrical load management. It is ideally suited for applications where load capacity requirements are dynamic, such as data centers and sales floors. The split-core housing makes this device perfect for retrofit projects.

The H663 monitors the current draw of each critical breaker in a panelboard. The accumulated information can be transmitted to a Modbus host and/or viewed on an optional local display via an RS-485 network. Data updates occur approximately once per second to provide timely preventative maintenance information. As a circuit approaches capacity, warning and alarm levels trigger (see graph, facing page). Additional capacity can then be added, or loads balanced, to prevent costly downtime from overloaded circuits and unexpected breaker trips.

APPLICATIONS

- Retrofitting panel boards
- Allocating load-based costs
- Protecting against overload
- Managing and balancing load
- Lighting circuits

A simple solution for individual circuit current monitoring

- The H663 reports current consumed on each circuit in the panel board...one product covers multiple points
- Provides Modbus registers for current limit warnings and alarms...prevents breaker trips
- Integrates with available network display for local indication

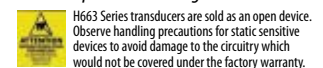
Split-core design and network compatibility... ideal for retrofit applications

- Up to 63 H663s can be networked on one Modbus RS-485 drop...simplified wiring
- Split-core CTs are perfect for quick installation on critical load applications that can't be powered down

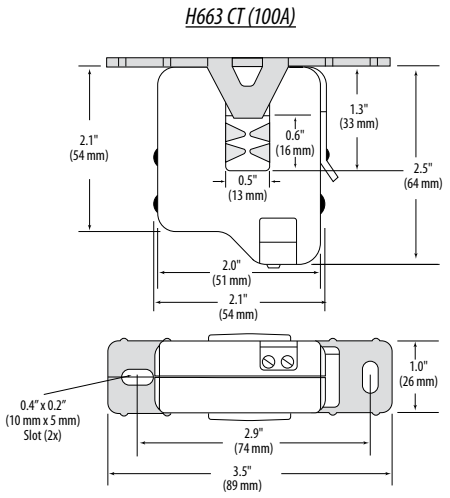
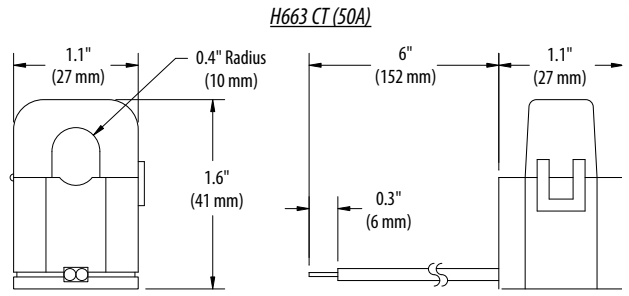
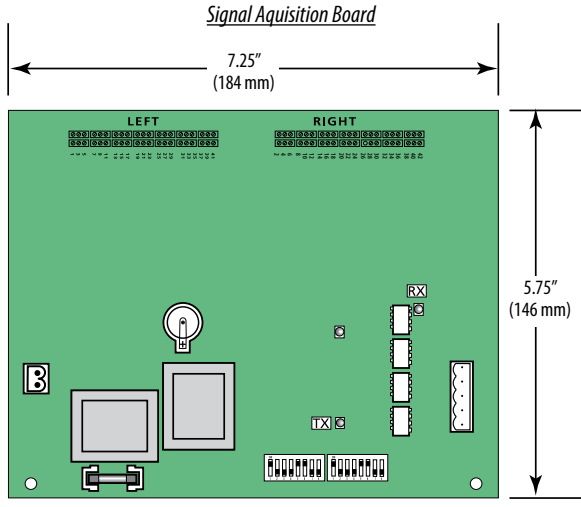
SPECIFICATIONS

Operating Temp. Range	0 to 60°C (32° to 140°F) (<95%RH, non-condensing)
Storage Temp. Range	-40° to 70°C (-40° to 158°F)
Power Source	120VAC (+10/-25%) line-to-neutral, 50/60Hz.; (208/230VAC for H663SM-xxE)
<i>Measured Current Inputs:</i>	
Number of Channels	42, 30, 24, 12, or 1 (Choose one option)
Frequency	50/60Hz
Sample Rate	1280Hz
Update Rate	1.2 sec
Accuracy	±5% of reading from 5A to 50A
Connection to Conductor	Inductive Split-core CT [†]
<i>Network Communications:</i>	
Type	Modbus® RTU
Connection	DIP-switch selectable 2-wire or 4-wire
Address	DIP-switch selectable address 1 to 247
Baud Rate	DIP-switch selectable 2400, 4800, 9600, 19200
Parity	DIP-switch selectable NONE/ODD/EVEN
Communication Format	8 data-bits, 1 start-bit, 1 stop-bit
Termination	5-position pluggable connector (TX+ TX- SHIELD TX+/RX+ TX-/RX-)
<i>Defaults:</i>	
Warning Register	60% of current sensor rating (configurable)
Alarm Register	70% of current sensor rating (configurable)
Current Settings	20 Amp

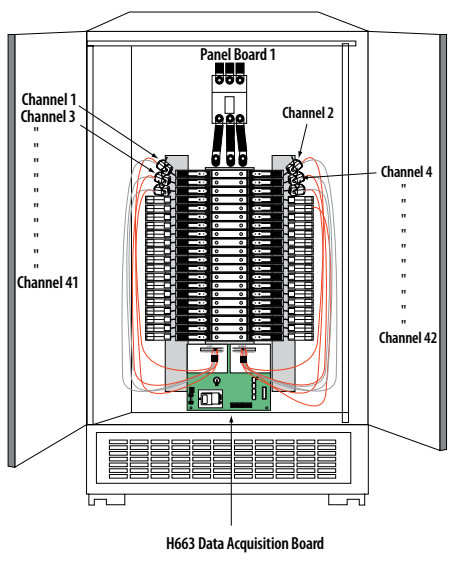
[†] Do not apply 300V Class current transformers to circuits having a line-to-neutral voltage greater than 300V, unless adequate additional insulation is applied between the primary conductor and the current transformers. Veris assumes no responsibility for damage of equipment or personal injury caused by products operated on circuits above their published ratings.



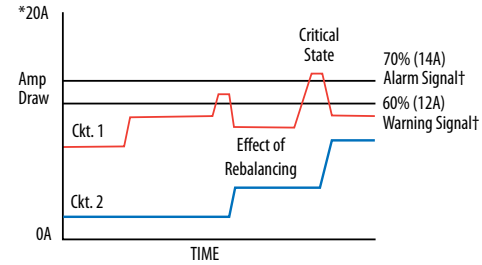
DIMENSIONAL DRAWINGS



TYPICAL PANELBOARD INSTALLATION



OPERATION EXAMPLE



*Example represents 20 Amp circuit
†Configurable time delay for alarm and warning

ORDERING INFORMATION

MODEL	# of CTs	AMPERAGE RANGE	OUTPUT
H663SM-xx(H)(E)	xx = 42, 30, 24, 12, or 1 (selectable)	Up to 50A* (configurable)	RTU Modbus†

For 240VAC supply voltage version, order the H663SM-xxE.
For the 100A CT version, order the H663SM-xxH.
For the 240V, 100A version, order the H663SM-xxHE.
For N2 protocol versions, order H662SM-xx.

NOTES:
*Hole size accommodates up to 6 AWG (10mm²) THHN insulated conductors.
†Other protocols available, consult factory.

ACCESSORIES

H8936 Network Display...see page 106.

