

Branch Current Monitor, Split-Core

Monitor Current on Every Breaker



H663

DESCRIPTION

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 panelboards
- Cost allocation
- Protecting against overload
- Managing and balancing loads
- Lighting circuits

SPECIFICATIONS



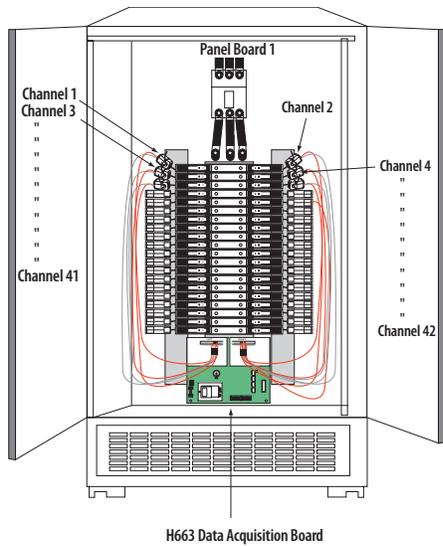
<i>Inputs:</i>	
Input Power	120 VAC (+10/-25%) line-to-neutral, 50/60 Hz; (208/230 VAC for H663SM-xxE)
Frequency	50/60 Hz
<i>Accuracy:</i>	
Accuracy	±5% of reading from 5 A to 50 A
Sampling Frequency	1280 Hz
Update Rate	1.2 sec
<i>Outputs:</i>	
Type	Modbus® RTU
Connection	DIP-switch selectable 2-wire 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
<i>Mechanical:</i>	
Connection to Conductor	Inductive split-core CT*
Number of Channels	42, 30, 24, 12, or 1 (Choose one option)
<i>Environmental:</i>	
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)

* Do not apply 300 V Class current transformers to circuits having a line-to-neutral voltage greater than 300 V, 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.

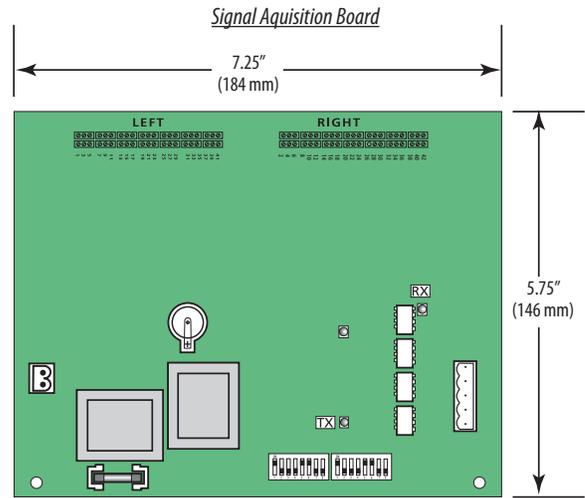


H663 Series transducers are sold as an open device. Observe handling precautions for static sensitive devices to avoid damage to the circuitry which would not be covered under the factory warranty.

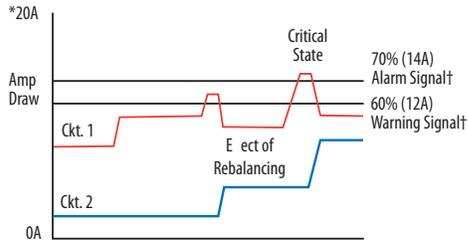
APPLICATION/WIRING EXAMPLES



DIMENSIONAL DRAWING

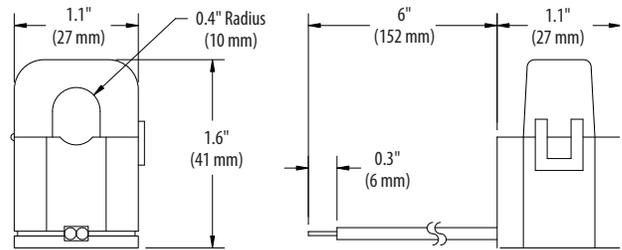


OPERATION EXAMPLE

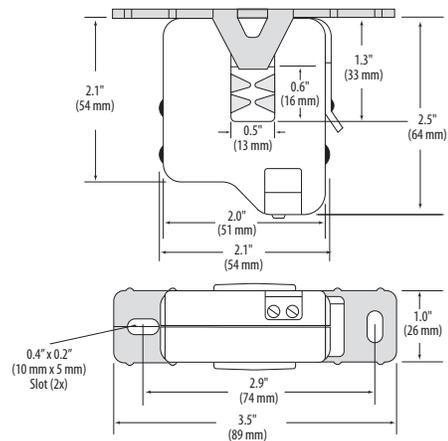


*Example represents 20 Amp circuit
†Configurable time delay for alarm and warning

H663 CT (50A)



H663 CT (100A)



ORDERING INFORMATION



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

For 240 VAC supply voltage version, order the H663SM-xxE.

For the 100 A CT version, order the H663SM-xxH.

For the 240 V, 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

Network Display (H8936)

