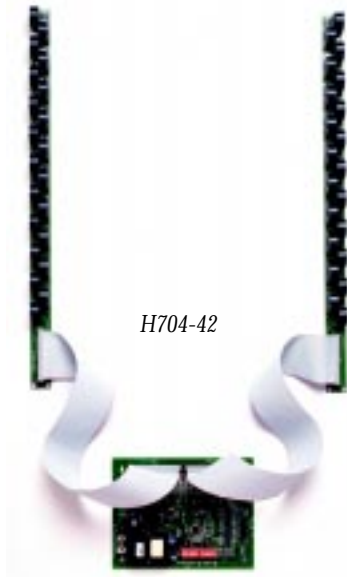


H704-42

Branch Circuit Monitor (Modbus RTU)



H704-42

A simple solution to individual circuit current monitoring

- Up to 63 H704-42's can be networked on one Modbus RS485 Drop...simplified wiring
- Each H704-42 provides current levels on each circuit in the panel board...one product covers multiple points
- 3/4" on center current sensors accomodate standard breakers...ease of installation
- Provides modbus registers for current limit warnings and alarms...prevents breaker trips

BRANCH CIRCUIT MONITOR

DESCRIPTION

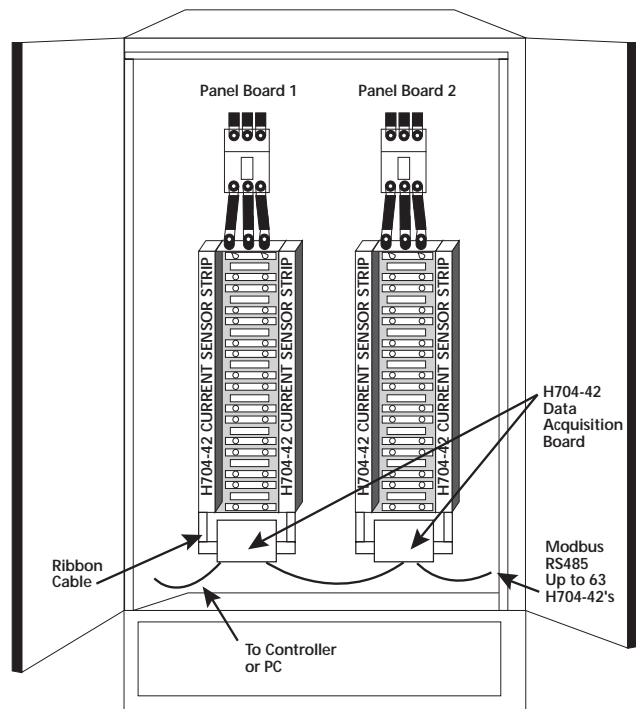
The branch circuit current monitoring system provides a cost-effective solution for electrical load management making it ideally suited for applications where load capacity requirements are dynamic, such as the growing data storage industry.

The branch circuit monitor reports the current level of each of the breakers in the panelboard to provide timely preventive maintenance information. As a circuit approaches capacity, an alarm is generated. Additional capacity can then be added to the system to prevent costly down time resulting from over loaded circuits.

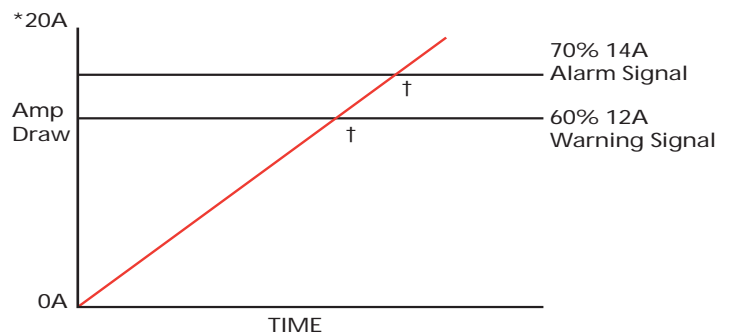
APPLICATIONS

- Load based cost allocation
- Overload protection
- Load management
- Load balancing
- Tenant cost allocation

TYPICAL PANELBOARD INSTALLATION



OVERLOAD SIGNALS



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

Ordering INFORMATION

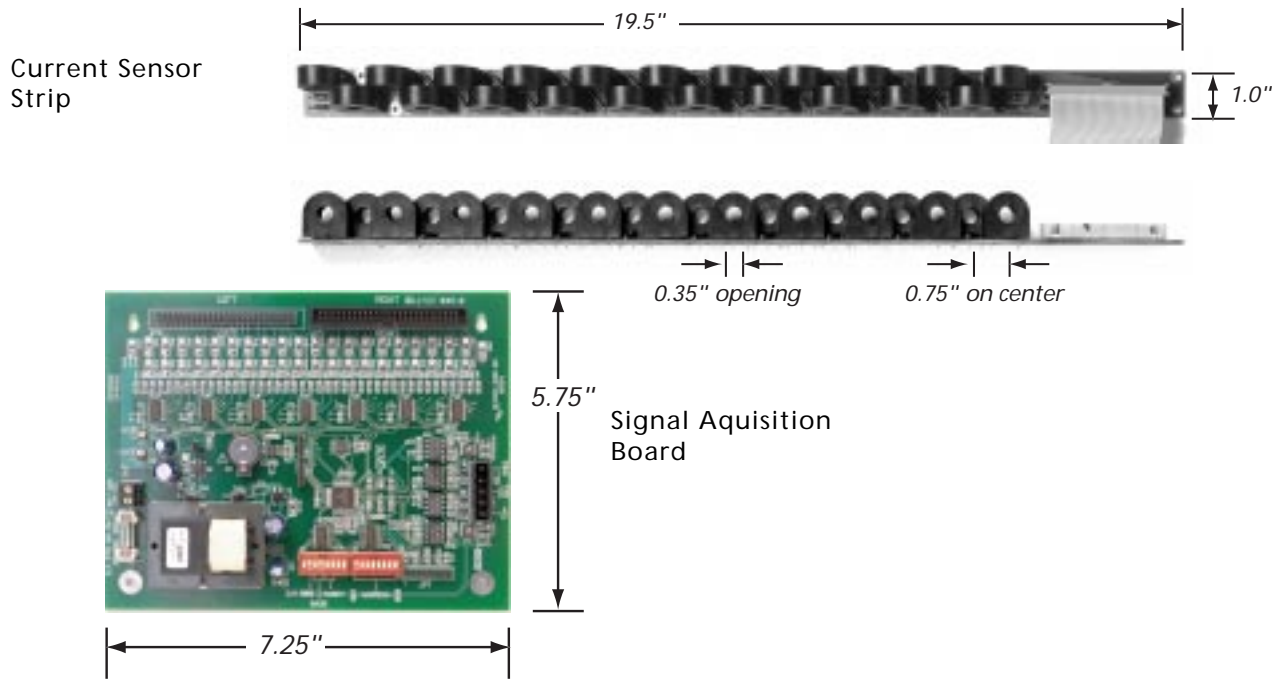
MODEL	AMP RANGE	OUTPUT
H704-42	10-50* configurable	Modbus † RTU



*Hole size accommodates up to #6 THHN insulated conductors.

†Other protocols available, consult factory.

DIMENSIONAL DRAWINGS



SPECIFICATIONS

General

- Operating Temp. Range 0 to 60°C (<95%RH, non-condensing)
- Storage Temp. Range -40°C to 70°C
- Power Source 120 VAC (+10/-25%), line-to-neutral, 50/60 Hz.

Measured Current Inputs

- Number of Channels 42
- Frequency 50/60 Hz.
- Sample Frequency 1280 Hz.
- Update Rate 1.2 sec
- Accuracy ±5% of reading from 5A to 50A
- Overload Capability (TBD)
- Connection to Conductor Solid-core toroid

Network Communications

- 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 depluggable connector
(TX+ TX- SHIELD TX+/RX+ TX-/RX-)

Defaults

- Warning Register 60% of current sensor max. (configurable)
- Alarm Register 70% of current sensor max. (configurable)

Current Settings 20 Amp

Dimensions

Circuit Boards

- Strips (L x W) 19.5" x 1.0"
- Mainboard (L x W) 7.25" x 5.75"

Mounting Brackets

- Strip Brackets (L x W) 20.31" x .75"
- Mainboard Bracket (L x W x H) 11.37" x 5.75" x 1.12"

Sensor Spacing 0.75" on center, Hole opening...0.350"

BRANCH CIRCUIT MONITOR