

Panel Mounted, AC Current Transducer

The **HAT-C8** Series of panel mounted current transducers are designed for application requiring the measurement of AC current with a proportional DC signal secondary output.

The HAT-C8 current transducer is designed for the harsh environmental conditions of industrial applications. .



Features:

- Rated Primary: 200A to 800A.
- Output Options:
 - 0 to 20mA DC (option **A0**),
 - 4 to 20mA DC (option **A1**),
 - 0 to 5VDC (option **V0**),
 - 1 to 5VDC (option **V1**).
 - 0 to 10VDC (option **V2**).
 - 1 to 10VDC (option **V3**).
- Opening: 45mm (1.77").
- Construction:
 - Epoxy encapsulated housing.
 - Case material – Nylon, UL flame retardant rating 94 V-0.
- Supply Voltage: $\pm 12V \dots \pm 15V (\pm 5\%)$.
- Supply Consumption:
 - VDC secondary output: 25mA.
 - mA DC secondary output: 25mA + I_M (nominal secondary output).

Specifications:

- Frequency: 50 to 400Hz.
- Isolation voltage between Primary and Secondary: 6,000V.
- Load Resistance:
 - VDC secondary output: > 10 kOhms.
 - mA DC secondary output: < 300 ohms.
- Operating Temperature: -25°C to +85°C.

- CE Compliant
- RoHS compliant.



Performance:

- Accuracy: $\pm 0.5\%$ of $I_{NOMINAL}$.
- Linearity: $\leq 0.5\%$.
- Offset Voltage:
 - VDC secondary output: ± 20 mV.
 - mA DC secondary output: ± 0.2 mA.
- Response Time: < 350ms

Standard Configuration Options:

Model	Rated Current (RMS)	Measurement Range
HAT-200C8Sxx	200A	0 to 240A
HAT-400C8Sxx	400A	0 to 480A
HAT-600C8Sxx	600A	0 to 720A
HAT-800C8Sxx	800A	0 to 960A

NOTE: “xx” is the secondary output option selection.

- 0 to 20mA DC (option **A0**),
- 4 to 20mA DC (option **A1**),
- 0 to 5VDC (option **V0**),
- 1 to 5VDC (option **V1**).
- 0 to 10VDC (option **V2**).
- 1 to 10VDC (option **V3**).

Custom current transducer designs are available to meet the specific application requirements. For a no obligation technical evaluation, please provide the specific performance requirements to engineering@tichenassociates.com or the address below.