



# Current Transducers: 4-20mA Analog Output, High Current Monitoring

## Hx21 & Hx21SP Series



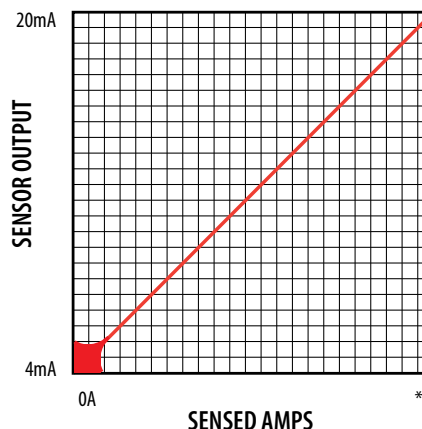
### SPECIFICATIONS



Sensor Power	30mA (max)@12-30VDC
Insulation Class	600VAC RMS
Frequency Range	50/60 Hz
Temperature Range	-15° to 60°C (5° to 140°F)
Humidity Range	10-90% RH, non-condensing
Accuracy	±2% from 10 to 100% of full scale
Response Time	2 sec.
Zero Adjustment	nominal output@0A: 4mA ± 0.5mA
Terminal Block Maximum Wire Size	12 AWG (3.3 mm <sup>2</sup> )
Terminal Block Torque	7 to 8 in-lbs (0.8 to 0.9 N-m)
Agency Approvals	UL 508 open device listing, CE: EN61010-1, (H221, H321 Only) CAT III, pollution degree 2, basic insulation

### EXAMPLE LINEAR OUTPUT

Scale software as shown



\*Adjusted with Span Potentiometer for Hx21 models;  
Factory-set per customer specification for Hx21SP models

100 to 300A (H221/H221SP)  
300 to 800A (H321/H321SP)  
1000 to 2400A (H421/H421SP)

## Large Load Trending With 4-20mA Output

### FEATURES

- Split-core design for easy installation and fast retrofits
- No need for external CTs on large conductors
- Large openings for heavy conductors
- Loop powered 4-20mA output
- Two-wire design reduces wiring cost
- Hx21 models offer zero and span adjustments for field flexibility
- Hx21SP models are factory-set at a range specified by the customer for easy setup and high confidence
- 100% solid state...no moving parts to fail
- 5-year warranty

### DESCRIPTION

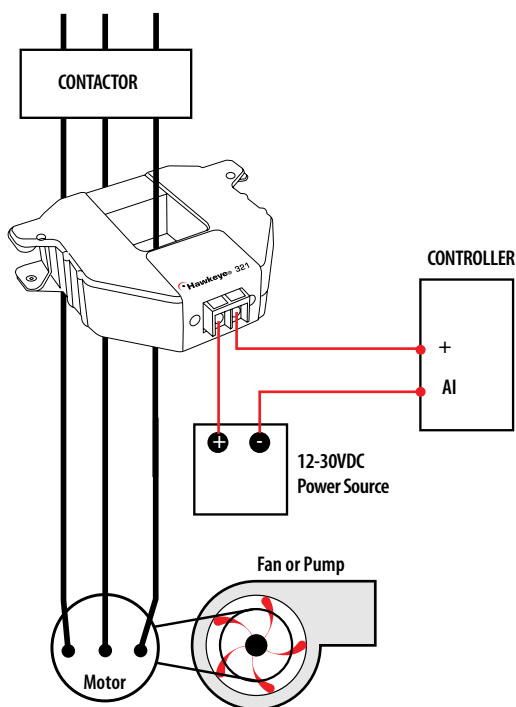
**Hawkeye x21/x21SP** analog current transducers provide reliable load trending information for large motor loads (up to 2400A), with a proportional 4-20mA signal. Three devices are available, each with a different amperage range. The Hx21 versions include a span potentiometer that allows each sensor to be calibrated for maximum resolution. The Hx21SP versions are factory-calibrated at a range specified by the customer.

### APPLICATIONS

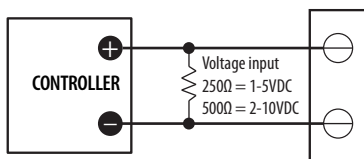
- Load trending of large motors and other loads up to 2400 Amps
- Monitor critical motors (compressor, fuel, etc.)

## WIRING DIAGRAMS

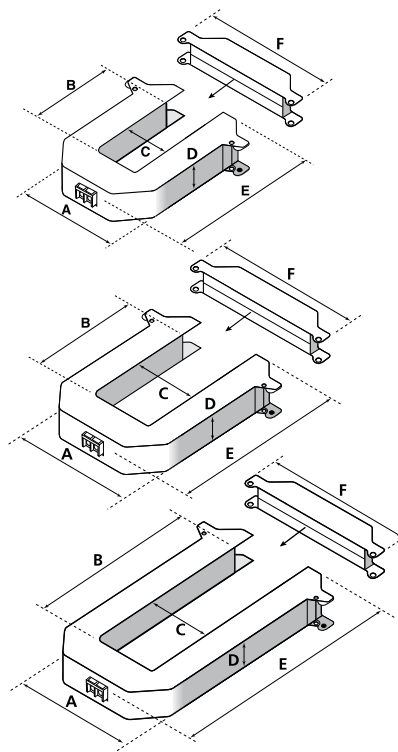
Monitoring Fan / Pump Motor Loads



Voltage Output



## DIMENSIONAL DRAWINGS



## H221

A =	3.7"	(94 mm)
B =	1.6"	(40 mm)
C =	1.4"	(35 mm)
D =	1.1"	(29 mm)
E =	4.2"	(106 mm)
F =	4.7"	(120 mm)

## H321

A =	4.9"	(124 mm)
B =	2.9"	(75 mm)
C =	2.5"	(63 mm)
D =	1.2"	(29 mm)
E =	5.5"	(140 mm)
F =	6.0"	(151 mm)

## H421

A =	4.9"	(124 mm)
B =	5.5"	(141 mm)
C =	2.5"	(65 mm)
D =	1.1"	(29 mm)
E =	8.1"	(206 mm)
F =	6.0"	(151 mm)

## ORDERING INFORMATION



MODEL	AMPERAGE RANGE		SENSOR OUTPUT	HOUSING	UL	CE	RoHS
	4mA (Lower Limit)	20mA (Upper Limit)					
H221	0A	100 to 300A	4-20mA DC	Split-core	● <sup>1</sup>	●	●
H221SP		100, 150, 200, 250, or 300A <sup>2</sup>			● <sup>1</sup>	●	●
H321		300 to 800A			● <sup>1</sup>	●	●
H321SP		300, 400, 500, 600, 700, or 800A <sup>2</sup>			● <sup>1</sup>	●	●
H421		1000 to 2400A					●
H421SP		1000, 1200, 1400, 1600, 1800, 2000, 2200, or 2400A <sup>2</sup>					●

<sup>1</sup> Listed for use on 75°C insulated conductors.

<sup>2</sup> Factory calibrated - no longer field adjustable

Note: When ordering HxxxSP versions, specify upper current limit for factory calibration (device is not field adjustable).

## ACCESSORIES

Universal Power Supply (PS Series)  
Universal Mounting Bracket Kit (AH06)



PS



AH06