## **HX21 & HX21SP SERIES**

Large Load Trending with 4 to 20 mA Output



Hawkeye x21/x21SP analog current transducers provide reliable load trending information for large motor loads (up to 2400 A), with a proportional 4 to 20 mA 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.

#### **SPECIFICATIONS**

Minimize Installed Cost

Sensor Power	30 mA (max) @ 12 to 30 Vdc
Insulation Class	600 Vac RMS (UL), 300 Vac RMS (CE)
Frequency Range	50/60 Hz
Temperature Range	-15 to 60 °C (5 to 140 °F)
Humidity Range	10 to 90% RH, non-condensing
Accuracy	±2% from 10 to 100% of full scale
Response Time	2 sec.
Terminal Block Wire Size	12 AWG (3.3 mm <sup>2</sup> ) - 22 AWG (0.33 mm <sup>2</sup> )
Terminal Block Torque	7 to 8 in-lbs (0.8 to 0.9 N-m)
WARRANTY	
Limited Warranty	5 years
AGENCY APPROVALS	

basic insulation



Agency Approvals

## Split-core design

Split-core design for easy installation and fast retrofits

## No need for external CTs

No need for external CTs on large conductors

# Large openings

Large openings for heavy conductors

## Loop powered

Loop powered 4 to 20 mA output

# Two-wire design

Two-wire design reduces wiring cost

# Field flexibility

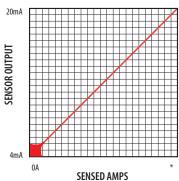
Hx21 models offer zero and span adjustments for field flexibility

#### **APPLICATIONS**

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

#### **EXAMPLE LINEAR OUTPUT**

Scale software as shown



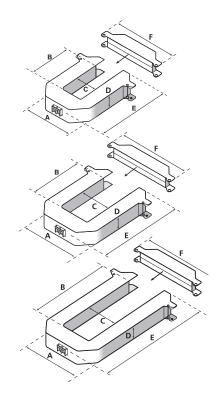
\*Adjusted with Span Potentiometer for Hx21 models; Factory-set per customer specification for Hx21SP models

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

UL 508 open device listing, CE: EN61010-1,

(H221, H321 only)CAT III, Pollution Degree 2,

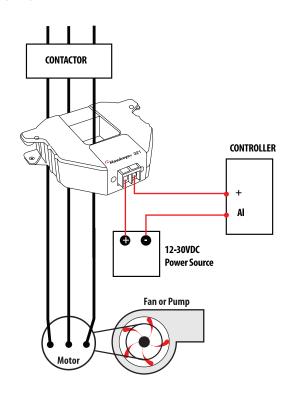
### **DIMENSIONAL DRAWING**



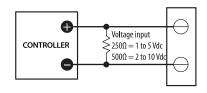
H221			H321				H421			
A =	3.7"	(94 mm)	A	=	4.9"	(124 mm)		A =	4.9"	(124 mm)
B =	1.6"	(40 mm)	В	=	2.9"	(75 mm)	-	3 =	5.5"	(141 mm)
( =	1.4"	(35 mm)	C	=	2.5"	(63 mm)		=	2.5"	(63 mm)
D =	1.1"	(29 mm)	D	=	1.2"	(29 mm)	- 1	) =	1.1"	(29 mm)
E =	4.2"	(106 mm)	Е	=	5.5"	(140 mm)	I	=	8.1"	(206 mm)
F =	4.7"	(120 mm)	F	=	6.0"	(151 mm)	- 1	=	6.0"	(151 mm)

### **MONITORING FAN /PUMP MOTORS LOADS**

Wiring Diagram



Voltage Output



### **ORDERING INFORMATION**

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

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

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

<sup>2.</sup> Factory calibrated - not field adjustable.