HX21 & HX21SP SERIES

Large Load Trending with 4 to 20 mA Output



Split-core design

Split-core design for easy installation and fast retrofits

Loop powered

Loop powered 4 to 20 mA output

No need for external CTs

No need for external CTs on large conductors

Two-wire design

Two-wire design reduces wiring cost

Large openings

Large openings for heavy conductors

Field flexibility

Hx21 models offer zero and span adjustments for field flexibility

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 Cos

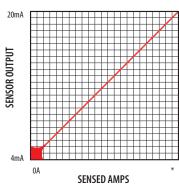
Sensor Power	30 mA (max) @ 12 to 30 Vdc				
Insulation Class	600 Vac RMS (UL), 300 Vac RMS (CE)				
Frequency Range	50/60 Hz				
Temperature Range	-15 to 60 °C (5 to 140 °F)				
Humidity Range	10 to 90% RH, non-condensing				
Accuracy	±2% from 10 to 100% of full scale				
Response Time	2 sec.				
Terminal Block Wire Size	12 AWG (3.3 mm²) - 22 AWG (0.33 mm²)				
Terminal Block Torque	7 to 8 in-lbs (0.8 to 0.9 N-m)				
WARRANTY					
Limited Warranty	5 years				
AGENCY APPROVALS					
Agency Approvals	UL 508 open device listing, CE: EN61010-1, (H221, H321 only)CAT III, Pollution Degree 2, basic insulation				

APPLICATIONS

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

EXAMPLE LINEAR OUTPUT

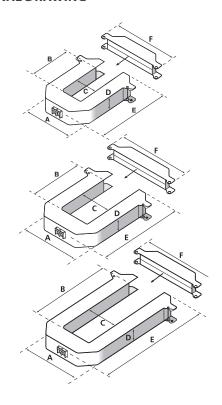
Scale software as shown



*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)

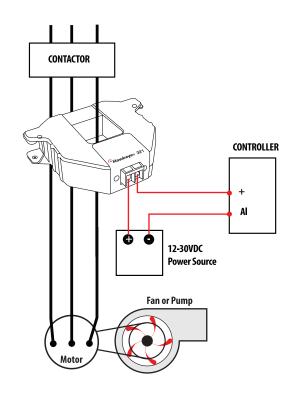
DIMENSIONAL DRAWING



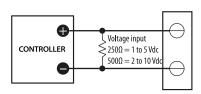
H221	H321	H421			
A = 3.7" (94 mm)	A = 4.9" (124 mm)	A = 4.9" (124 mm)			
B = 1.6" (40 mm)	B = 2.9" (75 mm)	B = 5.5" (141 mm)			
C = 1.4" (35 mm)	C = 2.5" (63 mm)	C = 2.5" (63 mm)			
D = 1.1" (29 mm)	D = 1.2" (29 mm)	D = 1.1" (29 mm)			
E = 4.2" (106 mm)	E = 5.5" (140 mm)	E = 8.1" (206 mm)			
F = 4.7" (120 mm)	F - 60" (151 mm)	F - 60" (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 ²			• 1	•	
H321		300 to 800 A			• 1	•	
H321SP		300, 400, 500, 600, 700, or 800 A ²			• 1	•	
H421		1000 to 2400 A					•
H421SP		1000, 1200, 1400, 1600, 1800, 2000, 2200, or 2400 A ²					•

^{1.} Listed for use on 75 $^{\circ}$ C insulated conductors.

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

^{2.} Factory calibrated - not field adjustable.