

Model Number
8120-410A

STRAIN GAGE SENSOR SIGNAL CONDITIONER

Revision: A
ECN #: 24069

Bridge Resistance (4-arm)	ohm	90 to 1000	
Bridge Excitation	kHz	3.28 (regulated)	
	VAC (RMS)	2	[1]
Accuracy	%	+/-0.05	[4]
Balance Range	Mv/V	+/-1.5	[2]
Span Range	Mv/V	0.5 to 5	[2] [4]
Active Filter	Hz	2, 400	[3]
Analog Output (dc to 2 Hz)	volts	0 to +/-5	
Analog Output (dc to 400 Hz)	volts	0 to +/-5	
Output Ripple and Noise	% (RMS)	0.02 (2 Hz filter)	[4]
	% (RMS)	0.15 (400 Hz filter)	[4]
Display Type		0.4 in (10.2 mm) LED	
Display Range		+/-99,999 (5 digits)	
Decimal Point		Adjustable via rear switches	
Scaling		+/-5000 by 1's	
		+/-10000 by 2's	
		+/-20000 by 5's	
Sampling Rate		3 samples per second	
Shunt Calibration		Actuated via front panel	
Shunt Calibration Resistor		Accessible through rear panel	
<u>ELECTRICAL</u>			
Power Supply Requirement	VAC	105 to 135	
	Hz	50 to 400 at 5 watts max.	
<u>ENVIRONMENTAL</u>			
Operating Temperature Range	°F [°C]	0 to +130 [-18 to +54.4]	
<u>PHYSICAL</u>			
Connectors:	Input/Output	type	20-pin card edge
	AC (power) Input	type	IEC 320
Size (H x W x D):		in	1.7 x 4.41 x 8.5
		[mm]	[43.2 x 112.0 x 215.9]
Weight		lb [kg]	2 [0.9]

All specifications are at room temperature unless otherwise specified.

OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted by the letter prefixes below. More than one option may be used.

- ☐ B- 12 VDC Battery-powered operation
- ☐ C- 4-20 mA Current Output
- ☐ F- Nominal 230 VAC operation
- ☐ G- Galvanic isolated outputs
- ☐ P- Analog peak capture

NOTES:

- [1] Nominal
- [2] 10-turn coarse and fine adjust
- [3] Selectable
- [4] Full Scale

SUPPLIED ACCESSORIES:

AC Line Cord (1)
Star Bridge Sensor Simulator (1)
Model 182-015A Mating Connector (1)

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In the interest of constant product improvement, we reserve the right to change specifications without notice.

Drawn: <i>BLS</i>	Engineer: <i>DWB</i>	Sales: <i>MFG</i>	Approved: <i>mjk</i>	Spec Number:
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