

Model Number

**8159-0011A****1 CHANNEL STRAIN GAGE SENSOR SIGNAL CONDITIONER**Revision: NR  
ECN #:

Sensor Excitation Voltage

Full Scale Input

Analog Output Voltage Signal

Analog Output Current Signal

Linearity

Output Bandwidth

Digital Resolution

Common Mode Rejection

Display Type

Display Range

Decimal Point

Set Points, Open Collector

Shunt Calibration

Shunt Calibration Resistor

Sense Leads

RS-232 Output

VDC

mV/V

VDC

mA

% of Full Scale

Hz

dB

type

[1]

[2]

[3]

[4]

[4]

10 +/- 0.5%

1.5

+/-10

4 to 20

±0.015

0 to 1000

1 part in 19,999

&gt;120 @ 50 - 60 Hz

0.4 in (10.2 mm) LED

+/- 99,999 (5 digits)

Adjustable via front panel

2 High and 2 Low

Actuated via front panel

Accessible through rear

panel

Disabled

Disabled

**ELECTRICAL**

Power Supply Requirement

Input

VAC/Hz

type

[5]

[5]

115/50 to 60

Fully differential (bi-polar)

**ENVIRONMENTAL**

Operating Temperature Range

Temperature Stability

Maximum Humidity, Non-condensing

°F [°C]

µV/°F [µV/°C]

%

[5]

[5]

[6]

[6]

+14 to +122 [-10 to +50]

+/- 0.56 [±0.1]

90

**PHYSICAL**

Connectors:

Sensor

Input/Output

AC (power) Input

type

type

type

in

[mm]

lb [kg]

9-pin female D-Sub

15-pin male D-Sub

IEC 320

1.89 x 3.78 x 5.88

[48 x 96 x 149]

1.3 [0.59]

[7]

[7]

**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.

F - 230 VAC Operation

**NOTES:**

- [1] Default Value: Internally selectable between 5 VDC and 10 VDC @ 120 mA max with remote sense short circuit current limiting
- [2] Default Value: Internally selectable between 1.5 mV/V, 2.5 mV/V, and 3.5 mV/V
- [3] Upper frequency limited by single pole, low-pass filter
- [4] Default Value: Factory selectable option
- [5] Unit set to 230 VAC when ordered as "F8159-0012A", internally selectable.
- [6] At +104 °F (+40 °C)
- [7] 1/8 DIN size

**SUPPLIED ACCESSORIES:**

Model 017 AC Line Cord

All specifications are at room temperature unless otherwise specified.

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

Drawn: *Set*Engineer: *mgc*Sales: *Jim*Approved: *UMB*

Spec Number:

Date: 12/21/04

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Date: 1/21/04

Date: 12/21/04

25057



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