

Model Number  
**482A21**

# SENSOR SIGNAL CONDITIONER

Revision: J  
ECN #: 32514

**OPTIONAL VERSIONS**

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

**NOTES:**

[1] Provided by supplied external DC power supply.  
 [2] User adjustable, factory set at 4 mA (± 0.5 mA). One control adjusts all channels.  
 [3] With ≥ 1M ohm input impedance of readout device.  
 [4] Typical.  
 [5] See PCB Declaration of Conformance PS024 for details.

	ENGLISH	SI
Channels	1	1
Voltage Gain(± 1 %)	1:1	1:1
Low Frequency Response(-5 %)	<0.1 Hz	<0.1 Hz
High Frequency Response(-5 %)	>1000 kHz	>1000 kHz
Fault/Bias Monitor/Meter	26 V FS	26 V FS
<b>Environmental</b>		
Temperature Range	32 to 120 °F	0 to 50 °C
<b>Electrical</b>		
Power Required(Standard)	DC power	DC power
Excitation Voltage(To Sensor)	25 to 27 VDC	25 to 27 VDC
DC Offset(Maximum)	<20 mV	<20 mV
DC Power	+32 to 38 VDC	+32 to 38 VDC
Constant Current Excitation(To Sensor)	0.12 amps	0.12 amps
Discharge Time Constant(0 to +50%)	2 to 20 mA	2 to 20 mA
Spectral Noise(1 Hz)	10 sec	10 sec
(10 Hz)	0.71 µV/√Hz	-123 dB
(100 Hz)	0.09 µV/√Hz	-142 dB
(1 kHz)	0.05 µV/√Hz	-147 dB
(10 kHz)	0.04 µV/√Hz	-149 dB
Broadband Electrical Noise(1 to 10,000 Hz)	0.03 µV/√Hz	-150 dB
<b>Physical</b>		
Electrical Connector(Input, sensor)	BNC Jack	BNC Jack
(Output)	BNC Jack	BNC Jack
(DC Power Input)	DIN Jack	DIN Jack
Size (Height x Width x Length)	6.3 in x 2.4 in x 11 in	16 cm x 6.1 cm x 28 cm
Weight	1.51 lb	685 gm

**SUPPLIED ACCESSORIES:**  
 Model 017AXX Power Cord  
 Model 488B04/NC Power Converter

Entered: <i>JJA</i>	Engineer: <i>PH</i>	Sales: <i>JJM</i>	Approved: <i>EP</i>	Spec Number:
Date: <i>3-12-10</i>	Date: <i>3-2-10</i>	Date: <i>3-12-10</i>	Date: <i>3-4-10</i>	<b>6528</b>

**PCB PIEZOTRONICS**  
**ELECTRONICS DIVISION**  
 3425 Walden Avenue, Depew, NY 14043  
 Phone: 716-684-0001  
 Fax: 716-684-0987  
 E-Mail: electronics@pcb.com

**CE**<sup>[5]</sup>

*All specifications are at room temperature unless otherwise specified. In the interest of constant product improvement, we reserve the right to change specifications without notice.*

ICP® is a registered trademark of PCB Group, Inc.