

Model Number
480C02

BATTERY-POWERED SIGNAL CONDITIONER FOR ICP® SENSOR

Revision: L
ECN #: 39050

	ENGLISH	SI	
Performance			
Channels	1	1	
Frequency Range(-5 %)	0.05 to 500,000 Hz	0.05 to 500,000 Hz	[4]
Voltage Gain(± 2 %)	1:1	1:1	
Fault/Bias Monitor/Meter(± 1 V)(midscale)	13 VDC	13 VDC	
Environmental			
Temperature Range	32 to 122 °F	0 to 50 °C	
Electrical			
Excitation Voltage(To Sensor)	25 to 29 VDC	25 to 29 VDC	
Constant Current Excitation(To Sensor)	2.0 to 3.2 mA	2.0 to 3.2 mA	[1]
Discharge Time Constant	>7 sec	>7 sec	[2]
DC Offset	<30 mV	<30 mV	[2]
Spectral Noise(1 Hz)	0.25 µV/√Hz	-132 dB	
(10 Hz)	0.07 µV/√Hz	-143 dB	
(100 Hz)	0.05 µV/√Hz	-146 dB	
(1 kHz)	0.04 µV/√Hz	-148 dB	
(10 kHz)	0.03 µV/√Hz	-150 dB	
Broadband Electrical Noise(1 to 10,000 Hz)(Gain x1)	3.25 µV rms	-110 dB rms	
Power Required(Standard)	Internal Battery	Internal Battery	
Internal Battery(Type)	9V	9V	
Battery Life(Standard Alkaline)	100 hours	100 hours	
(Rechargeable Ni Cad)	36 hours	36 hours	
Power Required(Alternate)	DC power	DC power	
DC Power	5 mA	5 mA	[3]
Internal Battery(Quantity)	3	3	
DC Power	25 to 29 VDC	25 to 29 VDC	[3]
Physical			
Electrical Connector(Input, sensor)	BNC Jack	BNC Jack	
(Output, scope)	BNC Jack	BNC Jack	
(External Power, DC)	3.5 mm Diameter Miniature Jack	3.5 mm Diameter Miniature Jack	
(Battery Charger)	#722 Switchcraft Jack	#722 Switchcraft Jack	
Size (Depth x Height x Width)	4 in x 2.9 in x 2.2 in	10 cm x 7.4 cm x 5.6 cm	
Weight(Including Batteries)	0.7 lb	0.3 Kg	

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] Through internal current limiting diode.
[2] With 1M ohm load.
[3] Provided by optional external DC power supply.
[4] Low frequency response specified into 1M ohm load.
[5] See PCB Declaration of Conformance PS024 for details.

OPTIONAL ACCESSORIES:
Model 400A81 (3) 9 V ultralife lithium batteries
Model 488A02 Tabletop battery charger, selectable input voltage, 110 & 220 VAC (for Series 480 battery signal conditioners)
Model 488A03 AC power source (for Series 480 battery signal conditioners - based on Model 488A02)



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.
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Entered: <i>Let</i>	Engineer: <i>KL</i>	Sales: <i>JM</i>	Approved: <i>BAM</i>	Spec Number:
Date: <i>4-24-12</i>	Date: <i>4-11-12</i>	Date: <i>4-13-12</i>	Date: <i>4-17-12</i>	480-3020-80

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