



Model Number 480C02	BATTERY-POWERED SIGNAL CONDITIONER FOR ICP® SENSOR		Revision: P ECN #: 45339
Performance	ENGLISH	SI	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.
Channels	1	1	
Frequency Range(-5 %)	0.05 to 500,000 Hz	0.05 to 500,000 Hz	[5]
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][3]
DC Offset	<30 mV	<30 mV	[2]
Spectral Noise(1 Hz)	0.25 µV/√Hz	-132 dB	
Spectral Noise(10 Hz)	0.07 µV/√Hz	-143 dB	
Spectral Noise(100 Hz)	0.05 µV/√Hz	-146 dB	
Spectral Noise(1 kHz)	0.04 µV/√Hz	-148 dB	
Spectral Noise(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	
Battery Life(Rechargeable Ni Cad)	36 hours	36 hours	
Power Required(Alternate)	DC power	DC power	
DC Power	5 mA	5 mA	[4]
Internal Battery(Quantity)	3	3	
DC Power	25 to 29 VDC	25 to 29 VDC	[4]
Physical			
Electrical Connector(Input, sensor)	BNC Jack	BNC Jack	
Electrical Connector(Output, scope)	BNC Jack	BNC Jack	
Electrical Connector(External Power, DC)	3.5 mm Diameter Miniature Jack	3.5 mm Diameter Miniature Jack	
Electrical Connector(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	
 [6]			
<i>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.</i>			
			
Entered: LK		Engineer: CPH	Sales: ML
Date: 5/23/2016		Date: 5/23/2016	Date: 5/23/2016
		Approved: JWH	Spec Number:
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