

Model Number 483C15	EIGHT-CHANNEL, ICP® SENSOR SIGNAL CONDITIONER			Revision: F ECN #: 46609
Performance	ENGLISH	SI		OPTIONAL VERSIONS
Channels	8	8		Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.
Sensor Input Type(s)	ICP®, Voltage	ICP®, Voltage	[2]	
Voltage Gain(± 1 %)(at 500 Hz)	x1, x10, x100	x1, x10, x100	[2]	
Output Range(Maximum)	± 10 V	± 10 V		
Low Frequency Response(-5 %)	0.05 Hz	0.05 Hz	[3][4]	
High Frequency Response(-3 dB)(x100)	>50 kHz	>50 kHz		
High Frequency Response(-5 %)(x100)	>17 kHz	>17 kHz		
High Frequency Response(-5 %)(x10)	>40 kHz	>40 kHz		
High Frequency Response(-5 %)(x1)	>100 kHz	>100 kHz		
High Frequency Response(-3 dB)(x1,x10)	>100 kHz	>100 kHz		
Phase Response(at 1 kHz)	± 1 °	± 1 °		
Cross Talk(maximum)	-72 dB	-72 dB		
Fault/Bias Monitor/Meter(LED)	Open/Short/Overload	Open/Short/Overload		
Environmental				
Temperature Range(Operating)	+32 to +122 °F	0 to +50 °C		
Electrical				NOTES:
Power Required	AC Power	AC Power		[1] User adjustable, factory set at 4 mA (± 0.5 mA). Each control adjusts 4 channels.
AC Power(47 to 63 Hz)	100 to 240 VAC	100 to 240 VAC		[2] Jumper selectable on internal circuit board.
AC Power	≤ 0.7 Amps	≤ 0.7 Amps		[3] The low frequency tolerance is accurate within ±25% of the specified frequency.
Excitation Voltage(± 1 VDC)(To Sensor)	+26 VDC	+26 VDC		[4] Un-buffered output, read out device input impedance affects discharge time constant and low frequency response of unit.
DC Offset	<20 mV	<20 mV		[5] Typical.
Constant Current Excitation(To Sensor)	0 to 20 mA	0 to 20 mA	[1]	[6] See PCB Declaration of Conformance PS024 for details.
Overload Threshold(± 1.0 Vpk)	± 10/5 Vpk	± 10/5 Vpk	[2]	
Discharge Time Constant(0 to 50 %)	>7 sec	>7 sec	[3][4]	
Broadband Electrical Noise(1 to 10,000 Hz)(Gain x1)	5.6 µV rms	5.6 µV rms	[5]	
Spectral Noise(1 Hz)	0.67 µV/√Hz	0.67 µV/√Hz	[5]	
Spectral Noise(10 Hz)	0.10 µV/√Hz	0.10 µV/√Hz	[5]	
Spectral Noise(100 Hz)	0.06 µV/√Hz	0.06 µV/√Hz	[5]	
Spectral Noise(1 kHz)	0.06 µV/√Hz	0.06 µV/√Hz	[5]	
Spectral Noise(10 kHz)	0.05 µV/√Hz	0.05 µV/√Hz	[5]	
Broadband Electrical Noise(1 to 10,000 Hz)(Gain x10)	21 µV/rms	21 µV/rms	[5]	
Spectral Noise(1 Hz)	5.10 µV/√Hz	5.10 µV/√Hz	[5]	
Spectral Noise(10 Hz)	0.60 µV/√Hz	0.60 µV/√Hz	[5]	
Spectral Noise(100 Hz)	0.22 µV/√Hz	0.22 µV/√Hz	[5]	
Spectral Noise(1 kHz)	0.22 µV/√Hz	0.22 µV/√Hz	[5]	
Spectral Noise(10 kHz)	0.19 µV/√Hz	0.19 µV/√Hz	[5]	
Broadband Electrical Noise(1 to 10,000 Hz)(Gain x100)	165 µV/rms	165 µV/rms	[5]	
Spectral Noise(1 Hz)	57 µV/√Hz	57 µV/√Hz	[5]	
Spectral Noise(10 Hz)	5.2 µV/√Hz	5.2 µV/√Hz	[5]	
Spectral Noise(100 Hz)	1.7 µV/√Hz	1.7 µV/√Hz	[5]	
Spectral Noise(1 kHz)	1.8 µV/√Hz	1.8 µV/√Hz	[5]	
Spectral Noise(10 kHz)	1.4 µV/√Hz	1.4 µV/√Hz	[5]	
Physical				SUPPLIED ACCESSORIES:
Electrical Connector(ICP® Sensor Input)	BNC Jack	BNC Jack		Model 017AXX Power Cord (1)
Electrical Connector(Output)	BNC Jack	BNC Jack		
Electrical Connector(AC Power Input)	IEC 320	IEC 320		
Size (Height x Width x Depth)(nominal)	1.75 in x 19 in x 13.7 in	44.5 mm x 482.6 mm x 348 mm		
Weight	6.25 lb	2.83 kg		
				Entered: LK
				Engineer: CPH
				Sales: ML
				Approved: DY
				Spec Number:
				Date: 6/13/2017
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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.				Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com