Model Number	ICP® SENSOR SIGNAL CONDITIONER	Revision: H
483C50		ECN #: 45020

Performance	ENGLISH	SI	
Channels	8	8	
Sensor Input Type(s)	ICP®, Voltage	ICP®, Voltage	
Voltage Gain	x0.1 to x200	x0.1 to x200	
Voltage Gain Increment	0.1	0.1	
Accuracy(Gain, x0.1 to x0.4)	± 5 %	± 5 %	
Accuracy(Gain, x0.5 to x200)	± 1 %	± 1 %	
Low Frequency Response(-5 %)	≤ 0.05 Hz	≤ 0.05 Hz	
High Frequency Response(-3 dB)	>100 kHz	>100 kHz	
High Frequency Response(-3 dB)	>80 kHz	>80 kHz	
Phase Response(at 1 kHz)	± 2 °	± 2 °	
Non-Linearity	1 %	1 %	
Cross Talk	<72 dB	<72 dB	
TEDS Sensor Support	Yes	Yes	
Fault/Bias Monitor/Meter(LED)	Open/Short/Overload	Open/Short/Overload	
Control Interface			
Digital Control Interface	Ethernet	Ethernet	
Environmental			
Temperature Range(Operating)	+32 to +120 °F	0 to +50 °C	
Electrical			
Power Required(direct input to unit)	AC Power	AC Power	
AC Power(47 to 63 Hz)	100 to 240 VAC	100 to 240 VAC	
AC Power	≤ 0.7 Amps	≤ 0.7 Amps	
Excitation Voltage(To Sensor)	>24 VDC	>24 VDC	
DC Offset	<50 mV	<50 mV	
Constant Current Excitation(To Sensor)(Non-Isolated Mode)	2 to 20 mA	2 to 20 mA	[1]
Output Impedance	<50 Ohm	<50 Ohm	
Overload Threshold(± 0.5 Vpk)	± 10 Vpk	± 10 Vpk	
Broadband Electrical Noise(1 to 10,000 Hz)(Gain x1)	50.0 µV/rms	50.0 µV/rms	[2]
Spectral Noise(1 Hz)	8.0 µV/√Hz	8.0 µV/√Hz	[2]
Spectral Noise(10 Hz)	1.5 µV/√Hz	1.5 µV/√Hz	[2]
Spectral Noise(100 Hz)	1.0 µV/√Hz	1.0 µV/√Hz	[2]
Spectral Noise(1 kHz)	1.0 µV/√Hz	1.0 µV/√Hz	[2]
Spectral Noise(10 kHz)	1.0 µV/√Hz	1.0 µV/√Hz	[2]
Broadband Electrical Noise(1 to 10,000 kHz)(Gain x10)	75.0 µV rms	75.0 µV rms	[2]
Spectral Noise(1 Hz)	20.0 µV/√Hz	20.0 µV/√Hz	[2]
Spectral Noise(10 Hz)	1.5 µV/√Hz	1.5 µV/√Hz	[2]
Spectral Noise(100 Hz)	1.0 µV/√Hz	1.0 µV/√Hz	[2]
Spectral Noise(1 kHz)	1.0 µV/√Hz	1.0 µV/√Hz	[2]
Spectral Noise(10 kHz)	1.0 µV/√Hz	1.0 µV/√Hz	[2]
Broadband Electrical Noise(1 to 10,000 Hz)(Gain x100)	350 µV rms	350 µV rms	[2]
Spectral Noise(1 Hz)	100.0 µV/√Hz	100.0 µV/√Hz	[2]
Spectral Noise(10 Hz)	10.0 µV/√Hz	10.0 µV/√Hz	[2]
Spectral Noise(100 Hz)	8.0 µV/√Hz	8.0 µV/√Hz	[2]
Spectral Noise(1 kHz)	6.0 µV/√Hz	6.0 µV/√Hz	[2]
Spectral Noise(10 kHz)	6.0 µV/√Hz	6.0 µV/√Hz	[2]
Physical			
Electrical Connector(ICP® Sensor Input)	BNC Jack	BNC Jack	
Electrical Connector(Output)	BNC Jack	BNC Jack	
Electrical Connector(Ethernet)	RJ-45	RJ-45	
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	7 lb	3.18 kg	

CE[3]

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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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]User adjustable, factory set at 4 mA (± 0.5 mA).
[2]Typical.
[3]See PCB Declaration of Conformance PS024 for details.

SUPPLIED ACCESSORIES:
Model 017AXX Power Cord (1)
Model EE75 PCB MCSC Control Software. (1)

Entered: LK	Engineer: CPH	Sales: ML	Approved: ECB	Spec Number:
Date: 1/20/2016	Date: 1/20/2016	Date: 1/20/2016	Date: 1/20/2016	40475

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