

Model Number 483C28		SENSOR SIGNAL CONDITIONER		Revision: E ECN #: 56455	
Performance		ENGLISH		SI	
Channels		8		8	
Sensor Input Type(s)		ICP®, Voltage, Bridge/Differential		ICP®, Voltage, Bridge/Differential	
Voltage Gain(ICP/Voltage Mode)		x0.1 to x200		x0.1 to x200	
Voltage Gain(Bridge/Differential Mode)		x0.1 to x2000		x0.1 to x2000	
Accuracy(Gain, x0.1 to x0.4)		± 5 %		± 5 %	
Accuracy(Gain, x0.5 to x0.99)		± 1 %		± 1 %	
Accuracy(Gain, x1.0 to x2000)		± 0.5 %		± 0.5 %	
Accuracy(Excitation)		± 1 %		± 1 %	
Input Range(Differential)		± 0 to 10 V		± 0 to 10 V	
Input Range (Voltage)		±5 V		± 5 V	
Output Range(Minimum)		± 10 V		± 10 V	
Frequency Range(-5 %)(x0.1 to x99.9 Gain)		0.1 to 100,000 Hz		0.1 to 100,000 Hz	
Frequency Range(-5 %)(x100 to x200 Gain)		0.1 to 50,000 Hz		0.1 to 50,000 Hz	
Phase Response(at 1 kHz)		± 1 °		± 1 °	
Cross Talk(maximum @ 10kHz)		-72 dB		-72 dB	
Calibration(Shunt)		Internal/External		Internal/External	
TEDS Sensor Support		Yes		Yes	
Fault/Bias Monitor/Meter(LED)		Open/Short/Overload Ethernet		Open/Short/Overload Ethernet	
Control Interface					
Digital Control Interface					
Environmental		+32 to +120 °F		0 to +50 °C	
Temperature Range(Operating)					
Electrical		AC Power		AC Power	
Power Required(direct input to unit)		100 to 240 VAC		100 to 240 VAC	
AC Power(47 to 63 Hz)		≤ 0.9 Amps		≤ 0.9 Amps	
AC Power		>+24 VDC		>+24 VDC	
Excitation Voltage(To Sensor)		+0 to 12 V		+0 to 12 V	
Excitation Voltage(Bridge Input)(Positive)		-0 to 12 V		-0 to 12 V	
Excitation Voltage(Bridge Input)(Negative)		± 1.2 V		± 1.2 V	
Input Imbalance Adjustment(Maximum, Gain <10)		± 0.12 V		± 0.12 V	
Input Imbalance Adjustment(Maximum, Gain ≥10)		± 10 V		± 10 V	
Common Mode Voltage(Maximum)		5 μV/°C		5 μV/°C	
DC Offset(Stability, Maximum RTI)		≤ 50 mV		≤ 50 mV	
DC Offset(AC Coupled)		<10 mV		<10 mV	
DC Offset(DC Coupled, Gain <100)		<20 mV		<20 mV	
DC Offset(DC Coupled, Gain ≥100)		30 mA		30 mA	
Current Output(Bridge Input)(Excitation, Maximum)		0 to 20 mA		0 to 20 mA	
Constant Current Excitation(To Sensor)		≤ 50 Ohm		≤ 50 Ohm	
Output Impedance		>1 MOhm		>1 MOhm	
Impedance(Input)		± 10 Vpk		± 10 Vpk	
Overload Threshold(± 0.2 Vpk)		50 μV rms		50 μV rms	
Broadband Electrical Noise(1 to 10,000 Hz)(Gain x1)		6.0 μV/√Hz		6.0 μV/√Hz	
Spectral Noise(1 Hz)(Gain x1)		1.5 μV/√Hz		1.5 μV/√Hz	
Spectral Noise(10 Hz)(Gain x1)		1.0 μV/√Hz		1.0 μV/√Hz	
Spectral Noise(100 Hz)(Gain x1)		1.0 μV/√Hz		1.0 μV/√Hz	
Spectral Noise(1 kHz)(Gain x1)		1.0 μV/√Hz		1.0 μV/√Hz	
Spectral Noise(10 kHz)(Gain x1)		75 μV rms		75 μV rms	
Broadband Electrical Noise(1 to 10,000 Hz)(Gain x10)		20 μV/√Hz		20 μV/√Hz	
Spectral Noise(1 Hz)(Gain x10)		1.5 μV/√Hz		1.5 μV/√Hz	
Spectral Noise(10 Hz)(Gain x10)		1.0 μV/√Hz		1.0 μV/√Hz	
Spectral Noise(100 Hz)(Gain x10)		1.0 μV/√Hz		1.0 μV/√Hz	
Spectral Noise(1 kHz)(Gain x10)		1.0 μV/√Hz		1.0 μV/√Hz	
Spectral Noise(10 kHz)(Gain x10)		350 μV rms		350 μV rms	
Broadband Electrical Noise(1 to 10,000 Hz)(Gain x100)		140.0 μV/√Hz		140.0 μV/√Hz	
Spectral Noise(1 Hz)(Gain x100)		14.0 μV/√Hz		14.0 μV/√Hz	
Spectral Noise(10 Hz)(Gain x100)		8.0 μV/√Hz		8.0 μV/√Hz	
Spectral Noise(100 Hz)(Gain x100)		4.0 μV/√Hz		4.0 μV/√Hz	
Spectral Noise(1 kHz)(Gain x100)		4.0 μV/√Hz		4.0 μV/√Hz	
Spectral Noise(10 kHz)(Gain x100)		3000 μV/rms		3000 μV/rms	
Broadband Electrical Noise(1 to 10,000 Hz)(Gain x1000)					
Physical		BNC Jack		BNC Jack	
Electrical Connector(ICP® Sensor Input)		8-socket mini DIN		8-socket mini DIN	
Electrical Connector(Bridge/Differential)		BNC Jack		BNC Jack	
Electrical Connector(Output)		RJ-45		RJ-45	
Electrical Connector(Ethernet)		1.75 in x 19.0 in x 13.7 in		44.5 mm x 482.6 mm x 348 mm	
Size (Height x Width x Depth)(nominal)					
Weight		7.0 lb		3.18 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]Adjustable in 0.1V steps.					
[2]Negative excitation can be set to 0V or to track the positive excitation votage.					
[3]Typical, AC Coupled.					
[4]Bridge/Differential Mode, DC Coupled with 350 ohm bridge					
[5]AC coupled mode (low frequency response is 0Hz in DC Coupled mode.)					
[6]See PCB Declaration of Conformance PS023 for details.					
SUPPLIED ACCESSORIES:					
Model 017AXX Power Cord (1)					
Model EE75 PCB MCSC Control Software. (1)					
Entered: NAD	Engineer: CPH	Sales: AH	Approved: JWH	Spec Number:	
Date: 8/6/2026	Date: 8/6/2026	Date: 8/6/2026	Date: 8/6/2026	43990	
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CE

UK

CA

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