

Model Number 482C24		SENSOR SIGNAL CONDITIONER		Revision: C ECN #: 56455		
Performance		ENGLISH	SI	OPTIONAL VERSIONS		
Channels		4	4	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			
Voltage Gain		x0.1 to x200	x0.1 to x200			
Accuracy(Gain, x0.1 to x0.4)		± 5 %	± 5 %			
Accuracy(Gain, x0.5 to x200)		± 1 %	± 1 %			
Input Range (Voltage)		± 5 V	± 5 V			
Output Range		± 10 V	± 10 V			
Frequency Range(-5 %)(x0.1 to x99.9 Gain)		0.1 to 100,000 Hz	0.05 to 100,000 Hz			[4]
Frequency Range(-5 %)(x100 to x200 Gain)		0.1 to 50,000 Hz	0.05 to 50,000 Hz			
Phase Response(at 1 kHz)		± 1 °	± 1 °			NOTES: [1]User adjustable, factory set at 4 mA (± 1.0 mA). One control adjusts all channels. [2]See Manual [3]Typical, AC Coupled. [4]0 Hz When DC Coupled [5]See PCB Declaration of Conformance PS024 for details.
Cross Talk(maximum)		-72 dB	-72 dB			
TEDS Sensor Support		Yes	Yes			
Fault/Bias Monitor/Meter(LED)		Open/Short/Overload	Open/Short/Overload			
Control Interface		2 rows, 16 columns	2 rows, 16 columns			
Human Interface		Keypad RS-232	Keypad RS-232			
Display		19,200 bps	19,200 bps			
Digital Control Interface		1, 8, 1, No	1, 8, 1, No			
Digital Control: Data Rate		RTS/CTS	RTS/CTS			
Digital Control: Start, Data, Stop, Parity		50 ft	15.2 m			
Digital Control: Handshaking						
Digital Control: Cable Length(Maximum)		+32 to +120 °F	0 to +50 °C			
Environmental						
Temperature Range(Operating)		AC Power	AC Power			
Electrical		DC power	DC power			
Power Required(for supplied AC power adaptor)		100 to 240 VAC	100 to 240 VAC			
Power Required(direct input to unit)		1.6 Amps	1.6 Amps			
AC Power(50 to 60 Hz)		+24 VDC	+24 VDC			
AC Power		≤ 50 mV	≤ 50 mV			
Excitation Voltage(To Sensor)		<10 mV	<10 mV			
DC Offset(AC Coupled)		<20 mV	<20 mV			
DC Offset(DC Coupled, Gain <100)		+9 to +18 VDC	+9 to +18 VDC			
DC Offset(DC Coupled, Gain ≥100)		≤ 2.5 Amps	≤ 2.5 Amps			
DC Power		0 to 20 mA	0 to 20 mA	[1]		
DC Power		≤ 50 Ohm	≤ 50 Ohm			
Constant Current Excitation(To Sensor)		+10 Vpk	+10 Vpk	[2]		
Output Impedance		Activated	Activated			
Overload Threshold(± 0.2 Vpk)		50.0 μV rms	50.0 μV rms	[3]		
Clamp Feature		8.0 μV/√Hz	8.0 μV/√Hz	[3]		
Broadband Electrical Noise(1 to 10,000 Hz)(Gain x1)		1.5 μV/√Hz	1.5 μV/√Hz	[3]		
Spectral Noise(1 Hz)(Gain x1)		1.0 μV/√Hz	1.0 μV/√Hz	[3]		
Spectral Noise(10 Hz)(Gain x1)		1.0 μV/√Hz	1.0 μV/√Hz	[3]		
Spectral Noise(100 Hz)(Gain x1)		1.0 μV/√Hz	1.0 μV/√Hz	[3]		
Spectral Noise(1 kHz)(Gain x1)		75.0 μV rms	75.0 μV rms	[3]		
Spectral Noise(10 kHz)(Gain x1)		20.0 μV/√Hz	20.0 μV/√Hz	[3]		
Broadband Electrical Noise(1 to 10,000 Hz)(Gain x10)		1.5 μV/√Hz	1.5 μV/√Hz	[3]		
Spectral Noise(1 Hz)(Gain x10)		1.0 μV/√Hz	1.0 μV/√Hz	[3]		
Spectral Noise(10 Hz)(Gain x10)		1.0 μV/√Hz	1.0 μV/√Hz	[3]		
Spectral Noise(100 Hz)(Gain x10)		1.0 μV/√Hz	1.0 μV/√Hz	[3]		
Spectral Noise(1 kHz)(Gain x10)		350 μV rms	350 μV rms	[3]		
Spectral Noise(10 kHz)(Gain x10)		100.0 μV/√Hz	100.0 μV/√Hz	[3]		
Broadband Electrical Noise(1 to 10,000 Hz)(Gain x100)		10.0 μV/√Hz	10.0 μV/√Hz	[3]		
Spectral Noise(1 Hz)(Gain x100)		8.0 μV/√Hz	8.0 μV/√Hz	[3]		
Spectral Noise(10 Hz)(Gain x100)		6.0 μV/√Hz	6.0 μV/√Hz	[3]		
Spectral Noise(100 Hz)(Gain x100)		6.0 μV/√Hz	6.0 μV/√Hz	[3]		
Spectral Noise(1 kHz)(Gain x100)						
Spectral Noise(10 kHz)(Gain x100)		BNC Jack	BNC Jack			
Physical		BNC Jack	BNC Jack			
Electrical Connector(ICP® Sensor Input)		6-socket mini DIN (female)	6-socket mini DIN (female)			
Electrical Connector(Output)		DB-9 Connector	DB-9 Connector			
Electrical Connector(DC Power Input)		3.2 in x 8.0 in x 5.9 in	8.1 cm x 20 cm x 15 cm			
Electrical Connector(RS-232 Digital Control)		2.00 lb	908 gm			
Size (Height x Width x Depth)						
Weight						
						
						
[5]						
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.						
SUPPLIED ACCESSORIES: Model 017AXX Power Cord (1) Model 100-7103-50 (02711) Multi-conductor cable, 6-ft, 9-pin female to 9-pin male. (1) Model 488B14/NC POWER CONVERTOR (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	62808		
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