

Performance	ENGLISH	SI
Channels	4	4
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 %
Output Range	± 10 V	± 10 V
Frequency Range(-5 %)(x0.1 to x99.9 Gain)	0.05 to 100,000 Hz	0.05 to 100,000 Hz
Frequency Range(-5 %)(x100 to x200 Gain)	0.05 to 50,000 Hz	0.05 to 50,000 Hz
Phase Response(at 1 kHz)	± 1 °	± 1 °
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		
Human Interface	Keypad	Keypad
Display	2 rows, 16 columns	2 rows, 16 columns
Digital Control Interface	RS-232	RS-232
Digital Control: Data Rate	19,200 bps	19,200 bps
Digital Control: Start, Data, Stop, Parity	1, 8, 1, No	1, 8, 1, No
Digital Control: Handshaking	RTS/CTS	RTS/CTS
Digital Control: Cable Length(Maximum)	50 ft	15.2 m
Environmental		
Temperature Range(Operating)	+32 to +120 °F	0 to +50 °C
Electrical		
Power Required(for supplied AC power adaptor)	AC Power	AC Power
Power Required(direct input to unit)	DC power	DC power
AC Power(50 to 60 Hz)	100 to 240 VAC	100 to 240 VAC
AC Power	1.6 Amps	1.6 Amps
Excitation Voltage(To Sensor)	+24 VDC	+24 VDC
DC Offset(AC Coupled)	≤ 50 mV	≤ 50 mV
DC Offset(DC Coupled, Gain <100)	<10 mV	<10 mV
DC Offset(DC Coupled, Gain ≥100)	<20 mV	<20 mV
DC Power	+9 to +18 VDC	+9 to +18 VDC
DC Power	≤ 2.5 Amps	≤ 2.5 Amps
Constant Current Excitation(To Sensor)	0 to 20 mA	0 to 20 mA
Output Impedance	≤ 50 Ohm	≤ 50 Ohm
Overload Threshold(± 0.2 Vpk)	+10 Vpk	+10 Vpk
Clamp Feature	Activated	Activated
Broadband Electrical Noise(1 to 10,000 Hz)(Gain x1)	50.0 μV rms	50.0 μV rms
Spectral Noise(1 Hz)(Gain x1)	8.0 μV/√Hz	8.0 μV/√Hz
Spectral Noise(10 Hz)(Gain x1)	1.5 μV/√Hz	1.5 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)	1.0 μV/√Hz	1.0 μV/√Hz
Broadband Electrical Noise(1 to 10,000 Hz)(Gain x10)	75.0 μV rms	75.0 μV rms
Spectral Noise(1 Hz)(Gain x10)	20.0 μV/√Hz	20.0 μV/√Hz
Spectral Noise(10 Hz)(Gain x10)	1.5 μV/√Hz	1.5 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)	1.0 μV/√Hz	1.0 μV/√Hz
Broadband Electrical Noise(1 to 10,000 Hz)(Gain x100)	350 μV rms	350 μV rms
Spectral Noise(1 Hz)(Gain x100)	100.0 μV/√Hz	100.0 μV/√Hz
Spectral Noise(10 Hz)(Gain x100)	10.0 μV/√Hz	10.0 μV/√Hz
Spectral Noise(100 Hz)(Gain x100)	8.0 μV/√Hz	8.0 μV/√Hz
Spectral Noise(1 kHz)(Gain x100)	6.0 μV/√Hz	6.0 μV/√Hz
Spectral Noise(10 kHz)(Gain x100)	6.0 μV/√Hz	6.0 μV/√Hz
Physical		
Electrical Connector(ICP® Sensor Input)	BNC Jack	BNC Jack
Electrical Connector(Output)	BNC Jack	BNC Jack
Electrical Connector(DC Power Input)	6-socket mini DIN (female)	6-socket mini DIN (female)
Electrical Connector(RS-232 Digital Control)	DB-9 Connector	DB-9 Connector
Size (Height x Width x Depth)	3.2 in x 8.0 in x 5.9 in	8.1 cm x 20 cm x 15 cm
Weight	2.00 lb	908 gm

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 (± 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.

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: LK	Engineer: CPH	Sales: ML	Approved: ECB	Spec Number:
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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.
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