Model Number 070M90	COMPUTATIONAL SIGNAL CONDITIONER [1]	Revision: NR ECN #:

ELECTRICAL			
Sensor Excitation Voltage (For ICP® Sensors)	VDC	24 (±1)	
Sensor Excitation Current	mA	2-20	[2]
AC Mode Coupling Time Constant	sec	>10	
Voltage Gain (Per Channel)	V/V	X1 (±3%)	
Voltage Gain (Summed Output)	V/V	X.1, X1, X10 (±3%)	
Frequency Response (-5%):(X.1,X1 Gain)	Hz/KHz	0.05/100	
:(X10 Gain)	Hz/KHz	0.05/50	
Spectral Noise (Summed Output): 1 Hz	µV/√Hz [dB]	30 [-90]	[3]
10 Hz	µV/√Hz [dB]	2 [-114]	[3]
100 Hz	µV/√Hz [dB]	1 [-120]	[3]
1 kHz	µV/√Hz [dB]	.5 [-126]	[3]
10 kHz	µV/√Hz [dB]	.5 [-126]	[3]
Noise Broadband (1 Hz-10 kHz)	µV [dB]	37[-89]	[3]
Output Range	V	>±10	[3]
Output Impedance	ohms	<100	
Sensor Status Display	LED	Overload, Fault	[4]
		Open, Short	[4]
Overload Condition	VpK	>10	[5]
Maximum Power Required(ICP® Mode)	watts	16.7	[6]
Power Required:	VDC/watts	+28 at 240 mA/5.76	[6]
	VDC/watts	+5 at 345 mA/1.73	[6]
	VDC/watts	+15 at 305 mA/4.6	[6]
	VDC/watts	-15 at 305 mA/4.6	[6]
ENVIRONMENTAL			
Operating Temperature Range	°F [°C]	32 to +120 [0 to +50]	
PHYSICAL			
Connectors: Input(12)	type	BNC	
Output(12)	type	BNC	
Summed Output(1)	type	BNC	
Size (H x W)	in [mm]	5.05 x 7.2 [128,27 x 182,88]	[7]
Weight	lb [kg]	3.56 [1,61]	

NOTES:

[1] Computation =[A+B+C+...+L] x Summed Gain where A thru L are (12) individual channels.
[2] Front panel potentiometer adjustable. Potentiometer adjusts all channels. Factory preset to 4mA +/-.5mA.
[3] Measured at Gain =1.
[4] Sensor status display contains fault/overload indicators for each channel and 1 overload indicator for the summed output.
[5] Overload condition is above 10V for any input, or summed output.
[6] Power consumption when unit is operating with 20 mA ICP current.
[7] 4x width unit.

All specifications are at room temperature unless otherwise specified.

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In the interest of constant product improvement, we reserve the right to change specifications without notice.

Drawn: BN	Engineer: BH	Sales: dlm	Approved: JV	Spec Number:
Date: 7-7-05	Date: 7-7-05	Date: 7-7-05	Date: 7-7-05	29992

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