Model Number	ICP ® SIGNAL CONDITIONER	Revision: A
682A02		ECN #: 15998

ELECTRICAL CHARACTERISTICS		**ENGLISH**	**SI**	
Excitation Voltage (±1 VDC)		18 VDC	18 VDC	[1]
Excitation Current (±1 mA)		4/10 mA	4/10 mA	[2]
Voltage Gain		1/10/100	1/10/100	[2]
Amplitude Linearity		≤2%	≤2%	
Frequency Response (±1 dB)		60 - 6,000,000 cpm	60 - 6 000 000 cpm	[3]
Noise, Gain 1:				
Broadband Electrical Noise	(1-10 kHz)	50 µV	50 µV	[4]
Spectral Noise (@ 10 mA):	10 Hz	0.8 µV/√Hz	0,8 µV/√Hz	[4]
	100 Hz	0.5 µV/√Hz	0,5 µV/√Hz	[4]
	1 kHz	0.5 µV/√Hz	0,5 µV/√Hz	[4]
	10 kHz	0.6 µV/√Hz	0,6 µV/√Hz	[4]
Noise, Gain 10:				
Broadband Electrical Noise	(1-10 kHz)	400 µV	400 µV	[4]
Spectral Noise (@ 10 mA):	10 Hz	7.5 µV/√Hz	7,5 µV/√Hz	[4]
	100 Hz	3.6 µV/√Hz	3,6 µV/√Hz	[4]
	1 kHz	3.2 µV/√Hz	3,2 µV/√Hz	[4]
	10 kHz	6.0 µV/√Hz	6,0 µV/√Hz	[4]
Noise, Gain 100:				
Broadband Electrical Noise	(1-10 kHz)	3.5 mV	3,5 mV	[4]
Spectral Noise (@ 10 mA):	10 Hz	80 µV/√Hz	80 µV/√Hz	[4]
	100 Hz	40 µV/√Hz	40 µV/√Hz	[4]
	1 kHz	32 µV/√Hz	32 µV/√Hz	[4]
	10 kHz	50 µV/√Hz	50 µV/√Hz	[4]
POWER REQUIREMENTS				
Voltage (±10%)		24 VDC	24 VDC	
Current (maximum)		60 mA	60 mA	
Fuse		1 A	1 A	
ENVIRONMENTAL CHARACTERISTICS				
Temperature Range		32 to 158 °F	0 to 70 °C	
PHYSICAL CHARACTERISTICS				
Size		3.1 x 3.3 x 0.97	78,7 x 83,8 x 24,6 mm	
Weight		0.194 lb	0,088 kg	
Mounting		Din Rail	Din Rail	
Input/Output Connector		Terminal Strip	Terminal Strip	

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.

-None-

NOTES:

[1] If unit is used in conjunction with a sensor having a bias over 13 VDC, full scale output may be affected or sensor may not power up.
[2] Internally jumper selectable.
[3] 1 Hz = 60 cpm (cycles per minute).
[4] Typical value.

SUPPLIED ACCESSORIES:

None

All specifications are at room temperature unless otherwise specified.

Form DD030 Rev.E 2/20/98

Drawn:	Engineer:	Sales:	Approved:	Spec Number:
Date: 9/9/02	Date: 9/9/02	Date: 9/9/02	Date: 9/9/02	9702

PCB PIEZOTRONICS INC. IMI DIVISION
3425 Walden Avenue, Depew, NY 14043 800-959-4464 Fax (716) 684-3823 E-Mail: imisales@pcb.com