

Model Number 682A03	ICP VIBRATION TRANSMITTER			Revision D ECN #: 23768
Performance	ENGLISH	SI		Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)
Channels	1	1		
Input Signal (Vibration)	±100 mV/g	±10.2 mV/(m/s ²)	[2]	Notes [1] Internal Dip switch selectable [2] Output measurement range is based upon input from 100 mV/g ICP® accelerometer and will be scaled inversely proportional to any percentage deviation of this input. [3] Requires use of accelerometer with "TO" temperature output option. [4] Output current voltage will fluctuate at frequencies below 5 Hz. [5] Factory set, 0-5 VDC. [6] Achieved with 100 mV/g ICP® accelerometer input. [7] Attenuation is -40 dB/decade. [8] The low frequency tolerance is accurate within ± 0.5 Hz of the specified frequency. [9] The high frequency tolerance is accurate within ± 0.5 kHz of the specified frequency. [10] Maximum 1,000 Hz for displacement. [11] Factory set, 1 in/sec peak. [12] See PCB Declaration of Conformance PS051 for details.
Input Signal (Temperature)	0 to 1.2 VDC	0 to 1.2 VDC	[3]	
Output Signal (DC Vibration)	4 to 20 mA	4 to 20 mA	[4]	
Output Signal (DC Vibration)	0 to 5 VDC	0 to 5 VDC	[5][1]	
Output Signal (DC Vibration)	0 to 10 VDC	0 to 10 VDC	[5][1]	
Output Signal (Temperature)	4 to 20 mA	4 to 20 mA	[3]	
Output Signal (±0.01 %) (AC Vibration)	100 mV/g	10.2 mV/(m/s ²)	[6]	
Frequency Range (-3 dB) (Acceleration)	180 to 600000 cpm	3 to 10k Hz	[7][8][9]	
Frequency Range (-3 dB) (Velocity)	210 to 600000 cpm	3.5 to 10k Hz	[7][8][9]	
Frequency Range (-3 dB) (Displacement)	210 to 60000 kHz	3.5 to 1000 Hz	[7][10]8	
Output Range (DC Acceleration)	0 to 5.00 g pk or rms	0 to 49.03 m/s ² pk or rms	[11][2]1	
Output Range (DC Acceleration)	0 to 10.00 g pk or rms	0 to 98.06 m/s ² pk or rms	[11][2]1	
Output Range (DC Acceleration)	0 to 20.00 g pk or rms	0 to 196.12 m/s ² pk or rms	[11][2]1	
Output Range (DC Velocity)	0 to 0.5 in/sec pk or rms	0 to 12.7 mm/s pk or rms	[11][2]1	
Output Range (DC Velocity)	0 to 1.00 in/sec pk or rms	0 to 25.4 mm/s pk or rms	[11][2]1	
Output Range (DC Velocity)	0 to 2.00 in/sec pk or rms	0 to 50.8 mm/s pk or rms	[11][2]1	
Output Range (DC Displacement)	0 to 25.0 mil pk - pk	0 to 0.635 mm pk - pk	[11][2]1	
Output Range (DC Displacement)	0 to 50.0 mil pk - pk	0 to 1.27 mm pk - pk	[11][2]1	
Output Range (DC Displacement)	0 to 100.0 mil pk - pk	0 to 2.54 mm pk - pk	[11][2]1	
Environmental				
Temperature Range (Operating)	32 to 158 °F	0 to 70 °C		
Temperature Range (Storage)	-40 to 257 °F	-40 to 125 °C		
Humidity Range (Non-Condensing)	0 to 95 %	0 to 95 %		
Electrical				
Power Required	DC power	DC power		
DC Power	18 to 36 VDC	18 to 36 VDC		
DC Power (maximum)	125 mA	125 mA		
Settling Time	<2 min	<2 min		
Load Resistance (4-20 mA, maximum)	500 Ohm	500 Ohm		
Load Resistance (0-5/10 V, minimum)	1000 Ohm	1000 Ohm		
Electrical Isolation (input/output)	500 VDC	500 VDC		
Excitation Voltage (delivered to sensor)	23 to 25 VDC	23 to 25 VDC		
Constant Current Excitation (delivered to sensor)	3 to 5 mA	3 to 5 mA		
Zero Measurand Output (± 2% of Span) (DC Vibration Current Output)	4 mA	4 mA		
Output Span (±5.0 %) (DC Vibration Current Output)	16 mA	16 mA		
Output Span (±5.0 %) (Temperature Output)	16 mA	16 mA		
Output Span (±5.0 %) (DC Vibration Voltage Output)	5 or 10 VDC	5 or 10 VDC	[1]	
Zero Measurand Output (± 2% of Span) (DC Vibration Voltage Output)	0 VDC	0 VDC		

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Zero Measurand Output ($\pm 2\%$ of Span) (Temperature Current Output)	4 mA	4 mA
Physical		
Electrical Connector (input/output)	Removable Screw Terminals	Removable Screw Terminals
Electrical Connector (raw vibration output)	BNC Jack	BNC Jack
Housing Material	Polyamide	Polyamide
Size (Height x Width x Depth)	3.9 in x 0.9 in x 4.5 in	99 mm x 22.5 mm x 114.5 mm
Weight (Maximum)	6.4 oz	127
Screw Terminal Wire Size	24-14 AWG	24-14 AWG
Din Rail Mount	1.38 in	35 mm
Status Indicator (Power "on")	Green LED	Green LED
Status Indicator (Input Fault)	Red LED	Red LED
Status Indicator (Measurement Mode - Acceleration)	Green LED	Green LED
Status Indicator (Measurement Mode - Velocity)	Green LED	Green LED
Status Indicator (Measurement Mode - Displacement)	Green LED	Green LED



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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