



DIN RAIL MOUNT VIBRATION TRANSMITTERS

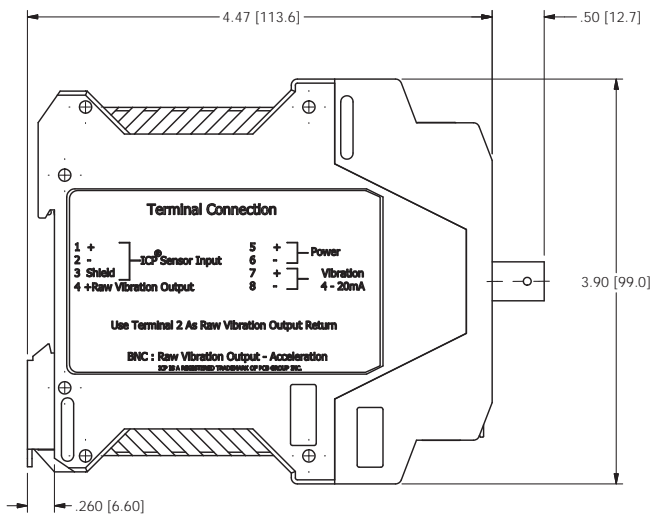
LOW-COST VIBRATION TRANSMITTER



- Converts AC voltage signal to 4-20 mA current output for direct input into PLC/DCS/SCADA
- Provides Excitation Power for ICP® Accelerometers
- Integrates acceleration input to velocity

MODELS 682A14 & 682A15

SPECIFICATIONS		
Model Number	682A14	682A15
Performance		
Channels	1	
Input Signal (Vibration)	100 mV/g 10.2 mV/(m/s ²)	
Output Signal(DC Vibration)	4 to 20 mA	
Output Signal(AC Vibration)	100 mV/g 10.2 mV/(m/s ²)	
Frequency Range(- 3 dB) (Velocity)	3.5 to 10,000 Hz	
Output Range(DC Velocity)	0 to 1.00 in/sec pk 0 to 25.4 mm/s pk	0 to 1.00 in/sec pk RMS 0 to 25.4 mm/s pk RMS
Environmental		
Temperature Range (Operating)	-13 to 158 °F -25 to 70 °C	
Temperature Range (Storage)	-40 to 257 °F -40 to 125 °C	
Humidity Range (Non-Condensing)	0 to 95 %	
Electrical		
DC Power	23 to 25 VDC	
DC Power (Maximum)	100 mA	
Settling Time	< 2 min	
Excitation Voltage (Delivered to Sensor)	19 to 21 VDC	
Constant Current Excitation (Delivered to Sensor)	3 to 5 mA	
Output Span (± 5.0 %) (DC Vibration Current Output)	16 mA	
Physical		
Housing Material	Polyamide	
Status Indicator (Power "On")	Green LED	
Status Indicator (Input Fault)	Red LED	
Electrical Connector (Input/Output)	Removable Screw Terminals	
Screw Terminal Wire Size	24-14 AWG	
Electrical Connector (Raw Vibration Output)	BNC Jack	
Din Rail Mount	1.38 in 35 mm	
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 g	

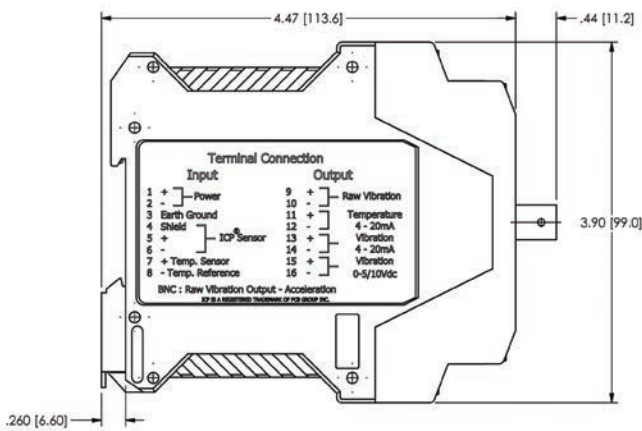


CONFIGURABLE VIBRATION TRANSMITTER

MODEL 682C03

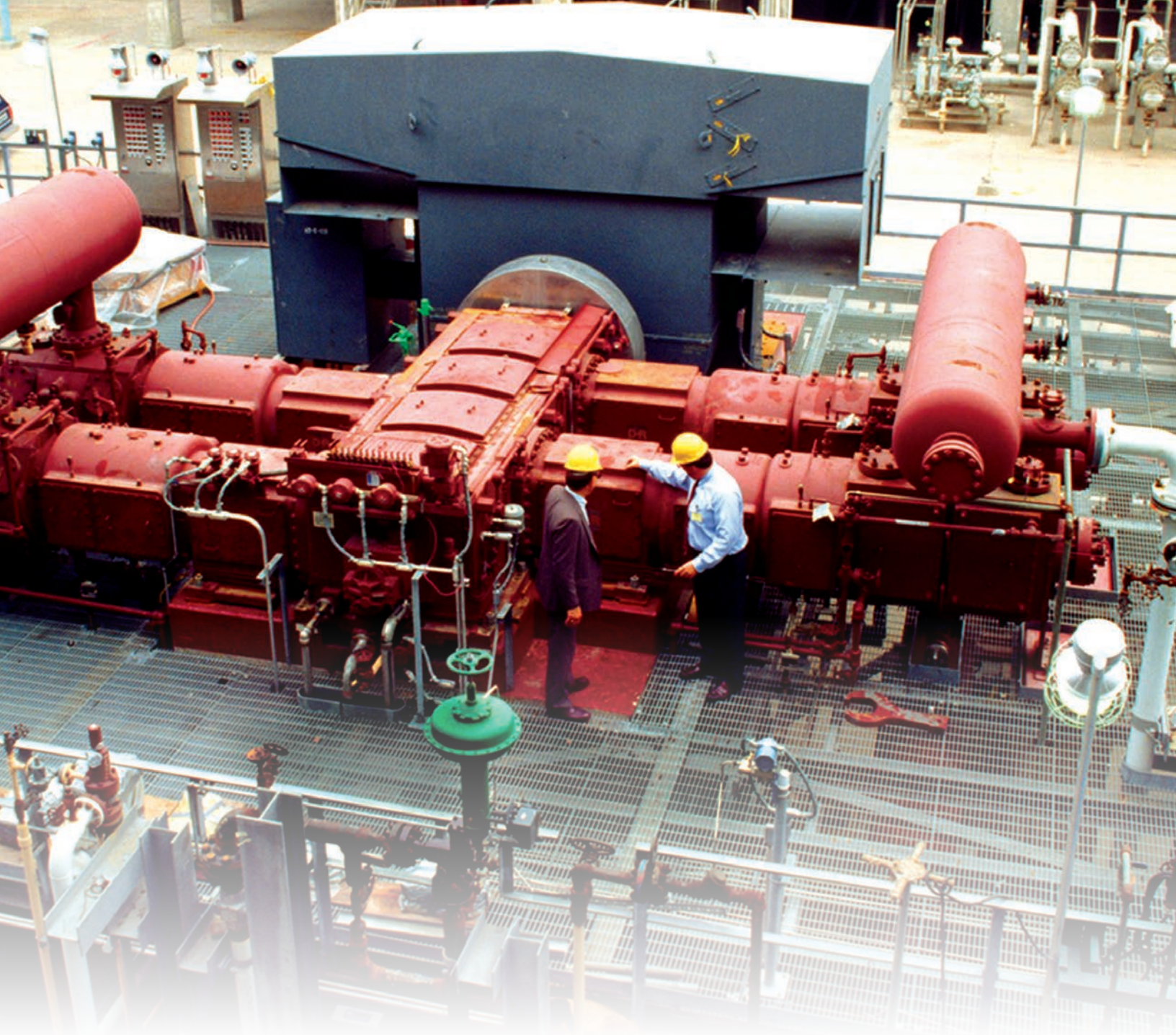


- Plug-in filter modules allow field-adjustment of frequency range
- Fifteen measurement range vibration options to fine tune product to application requirements
- Accepts vibration and temperature inputs for pairing with accelerometers with simultaneous vibration/temperature outputs



SPECIFICATIONS

Model Number	682C03
Performance	
Channels	1
Input Signal (Vibration)	±100 mV/g ±10.2 mV/(m/s ²)
Input Signal (Temperature)	0 to 1.2 VDC
Frequency Range (-3 dB) (Acceleration)	3 to 10,000 Hz
Frequency Range (-3 dB) (Velocity)	3.5 to 10,000 Hz
Frequency Range (-3 dB) (Displacement)	3.5 to 1,000 Hz
Output Signal (DC Vibration and Temperature)	4 to 20 mA
Output Signal (DC Vibration)	0 to 10 VDC
Output Signal (±0.01 %) (AC Vibration)	100 mV/g 10.2 mV/(m/s ²)
Output Range (DC Acceleration)	0 to 5.00 g pk or rms 0 to 49.03 m/s ² pk or rms
Output Range (DC Acceleration)	0 to 10.00 g pk or rms 0 to 98.06 m/s ² pk or rms
Output Range (DC Acceleration)	0 to 20.00 g pk or rms 0 to 196.12 m/s ² pk or rms
Output Range (DC Velocity)	0 to 0.5 in/sec pk or rms 0 to 12.7 mm/s pk or rms
Output Range (DC Velocity)	0 to 1.00 in/sec pk or rms 0 to 25.4 mm/s pk or rms
Output Range (DC Velocity)	0 to 2.00 in/sec pk or rms 0 to 50.8 mm/s pk or rms
Output Range (DC Displacement)	0 to 10.0 mil pk - pk 0 to 0.254 mm pk - pk
Output Range (DC Displacement)	0 to 20.0 mil pk - pk 0 to 0.508 mm pk - pk
Output Range (DC Displacement)	0 to 40.0 mil pk - pk 0 to 1.02 mm pk - pk
Environmental	
Temperature Range (Operating)	-13 to 158 °F -25 to 70 °C
Electrical	
DC Power	23 to 25 VDC
DC Power (Maximum)	100 mA
Settling Time	< 2 min
Excitation Voltage (Delivered to Sensor)	17 to 19 VDC
Constant Current Excitation (Delivered to Sensor)	3 to 5 mA
Output Span (±5.0 %) (DC Vibration and Temperature Current Output)	16 mA
Output Span (±5.0 %) (DC Vibration Voltage Output)	5 or 10 VDC
Physical	
Housing Material	Polyamide
Status Indicator (Power "On")	Green LED
Status Indicator (Input Fault)	Red LED
Status Indicator (Measurement Mode)	Green LED
Electrical Connector (Input/Output)	Removable Screw Terminals
Screw Terminal Wire Size	24-14 AWG
Electrical Connector (AC Vibration)	BNC Jack
Din Rail Mount	1.38 in 35 mm
Size (H x W x D)	3.9 x 0.9 x 4.5 in 99.0 x 22.5 x 114.5 mm
Weight	6.4 oz 127.0 g



 **IMI SENSORS**
A PCB PIEZOTRONICS DIV.

3425 Walden Avenue, Depew, NY 14043-2495 USA

Toll-Free in the USA: 800 959 4464

Phone: 1 716 684 0001 | Email: info@pcb.com

IMI Sensors, a division of PCB Piezotronics, Inc. manufactures industrial vibration monitoring instrumentation, such as accelerometers, vibration transmitters and switches that feature rugged stainless steel housings and survive in harsh environments like paper and steel mills, mines, gas turbines, water treatment facilities and power plants. Integrating with portable analyzers and PLC's, IMI instrumentation helps maintenance departments reduce downtime and protect critical machinery. Visit IMI Sensors at www.pcb.com. PCB Piezotronics, Inc. is a wholly owned subsidiary of MTS Systems Corporation. Additional information on MTS can be found at www.mts.com.

© 2019 PCB Piezotronics, Inc. In the interest of constant product improvement, specifications are subject to change without notice. PCB®, ICP®, Swiveler®, Modally Tuned®, and IMI® with associated logo are registered trademarks of PCB Piezotronics, Inc. in the United States. ICP® is a registered trademark of PCB Piezotronics Europe GmbH in Germany and other countries. UHT-12™ is a trademark of PCB Piezotronics, Inc. SensorLine™ is a service mark of PCB Piezotronics, Inc. SWIFT® is a registered trademark of MTS Systems Corporation in the United States.

IMI-TRM-DIMTRANSMITTERS-0420



MTS Sensors, a division of MTS Systems Corporation (NASDAQ: MTSC), vastly expanded its range of products and solutions after MTS acquired PCB Piezotronics, Inc. in July, 2016. PCB Piezotronics, Inc. is a wholly owned subsidiary of MTS Systems Corp.; IMI Sensors and Larson Davis are divisions of PCB Piezotronics, Inc.; Accumetrics, Inc. and The Modal Shop, Inc. are subsidiaries of PCB Piezotronics, Inc.