



1-808

Vibration Transmitter



Applications

- Industrial Turbines
- Remote machinery monitoring
- Turbine-driven power generators
- Gas transmission compressors

Features

- Calibrated 4-20 mA output proportional to transducer input
- Buffered output
- Includes two filters
- Signal/Cable monitoring

Description

Simplicity is the goal behind the CEC 1-808 Vibration Transmitter. The 1-808 is designed for the industrial environment where machine monitoring is important and space is at a premium. Each 1-808 Vibration Transmitter includes a high-pass and low-pass filter and the transmitters are configured to the customer's specification at CEC's facility. By providing a calibrated 4-20 mA output signal, the 1-808 Vibration Transmitter is ideal for use with PLC's, DCS's, remote displays, or other electronic systems.

One of the two key features of the transmitter is its ability to monitor the sensor and cable integrity. In the event of a sensor cable failure, the current output will drive to 2.5 mA and the

green status LED will be extinguished.

The second feature consists of a buffered output connection which enables the user to connect across the vibration sensor without affecting the analog output. On-line vibration analysis and testing of the sensor is now a simple procedure.

Monitoring Systems



1-808 Vibration Transmitter

Performance Specifications

Maximum Load:	600 Ω
Humidity Range:	0-95% relative; non-condensing
Connectors:	Positive force terminal block contacts
Input Voltage:	8 V pk, maximum
Frequency Response:	5 Hz to 20,000 Hz ±5%
Power:	22 to 26 VDC unregulated @ 100 mA nominal
Isolation:	1000 VDC minimum
Ambient Temperature:	-40°F to +176°F (-40°C to +80°C)
Weight:	6.4 ounces
Hazardous Area Rating:	
CSA Certified Class 1 (A,B,C & D) Div 2 FM certified NI/1/2/ABCD/T5; TA = 80°C	

Ordering Information

When ordering, use the guide to the right. In keeping with CEC's policy of continuing product improvement, specifications may be changed without notice.

ORDERING GUIDE "B"

CEC P/N 1-808-										A	A	B	B	B	-	C	D	E	-	H	L		
VIBRATION TRANSMITTER																							
A	INPUT TYPE																						
	AC = mV/g constant current																						
	AD = μC/g differential-charge																						
	AM = mV/g millivolt input																						
	DM = mV/mil millivolt input																						
B	INPUT SENSITIVITY																						
	0 1 0 - 9 9 9																						
C	ANALOG OUTPUT																						
	2 = 0 - 10 Vdc																						
	4 = 4 - 20 mA (Standard)																						
D	OUTPUT MODE (Units of Measure)																						
	1 = g's, peak											5 = ips, rms											
	2 = ips, peak											6 = mm/s, peak											
	3 = mm/s, peak-peak											7 = mm/s, rms											
E	OUTPUT RANGE (Full Scale)																						
	1 = 0 - 1											5 = 0 - 20											
	2 = 0 - 2											6 = 0 - 50											
	3 = 0 - 5											7 = 0 - 100											
H	HIGH PASS FILTER																						
	0 = 5 Hz											5 = 100 Hz		A = 15 Hz									
	1 = 5 Hz											6 = 200 Hz											
	2 = 10 Hz											7 = 500 Hz											
	3 = 20 Hz											8 = 1,000 Hz											
L	LOW PASS FILTER																						
	0 = 20,000 Hz											5 = 500 Hz		A = 12,000 Hz									
	1 = 50 Hz											6 = 1,000 Hz		B = 350 Hz									
	2 = 70 Hz											7 = 2,000 Hz		C = 3000 Hz									
	3 = 100 Hz											8 = 5,000 Hz											
4 = 200 Hz											9 = 300 Hz												

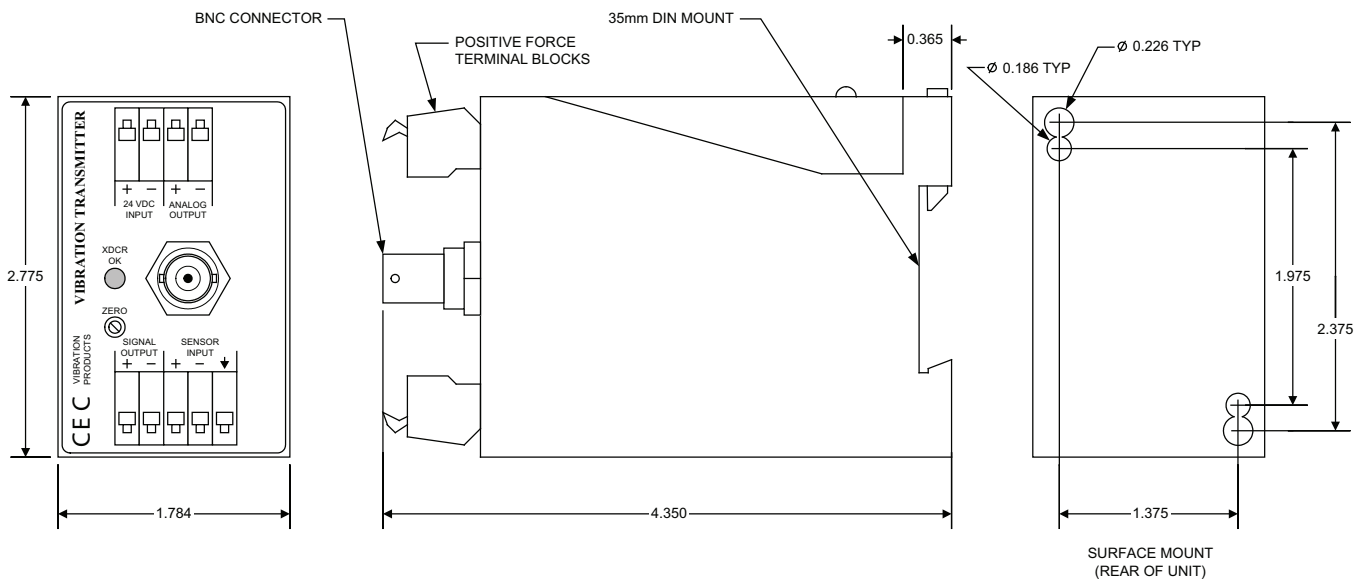
NOTE: Special configurations can be accommodated. Please consult the factory for assistance.

Example: P/N 1-808-V S 1 4 5 - 4 5 3 - 2 6

The example unit's input is from a self-generating velocity transducer @ 145 mV / ips. The output is 4-20 mA scaled from 0 to 5 ips, rms. The filtering includes a 10 Hz high pass and 1,000 Hz low pass.

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