



# 4-162

Accelerometers

## Vibration Sensor/Transmitter



### Applications

- Multi-Point Experimental
- Fans
- Motors
- Generators
- Compressors
- Pumps

### Features

- Loop Powered
- Direct connect to PLC & DCS systems
- Hermetically Sealed
- Internally Shielded
- Thermal Isolation

### Description

The 4-162 vibration sensor is a compact, well-protected industrial accelerometer, giving a process output of 4-20mA proportional to various vibration ranges in terms of velocity RMS.

The 4-162 is intended for use as a direct input of vibration levels into many different kinds of control and data acquisition systems. However, it can be used with a trip amplifier or suitable display as a stand-alone unit.

The outer case is constructed from stainless steel, hermetically sealed and electronically isolated from the signal connection which is made via a top exit cable or 2-pin connector.

The transducer is mounted by means of a single threaded hole in the base of the cylindrical body, this accepts a mounting stud which is supplied by CEC.



## 4-162 Vibration Sensor/Transmitter

### Performance Specifications

<b>Output:</b>	4-20 mA proportional to 0-0.5, 0-1, 0-2 in/sec RMS (0-15, 0-25 or 0-50 mm/sec RMS)
<b>Linearity:</b>	Less than 5% at 10 Hz - 1000 Hz (ISO2372 recommended frequencies)
<b>Supply Voltage:</b>	18-30 Volts DC
<b>Cross Axis Sensitivity:</b>	Less than 5%
<b>Frequency Response:</b>	2.5 Hz to 2500 Hz $\pm$ 3dB
<b>Temperature Range</b>	
<b>Operational:</b>	-40°F to +185°F (-40°C to +85°C)
<b>Storage:</b>	-67°F to +250°F (-55°C to +124°C)
<b>Environmental Sealing:</b>	Welded, Hermetic
<b>Temperature Sensitivity:</b>	0.05% per °C
<b>Range:</b>	50 g peak
<b>Mounting Torque:</b>	2 to 5 ft. lbs.
<b>Mounting:</b>	1/4 - 28 Stud (included)
<b>Construction:</b>	Stainless steel case, electrically isolated from internal connections, up to 500 VAC
<b>Weight w/out Cable:</b>	3.2 oz.

### Optional Accessories

1. Mating Connector P/N 619571-1004
2. Cable assembly P/N 780400-91-XXXX (XXXX indicates length in inches e.g.: 10 ft cable = 120 inches is P/N 780400-91-0120).  
Assembly includes mating connector to prepared wire.

### Ordering Information

Mating connectors and cable assemblies are not furnished and must be ordered separately. In keeping with CEC's policy of continuing product improvement, specifications may be changed without notice. See table below for type numbers and available configurations.

Type	Output	Connection
4-162-1001	0-0.5 ips RMS	Top Connector
4-162-1002	0-1 ips RMS	Top Connector
4-162-1003	0-2 ips RMS	Top Connector
4-162-2001-01	0-0.5 ips RMS	Integral 10 ft. cable
4-162-2002-01	0-1 ips RMS	Integral 10 ft. cable
4-162-2003-01	0-2 ips RMS	integral 10 ft. cable

