

CMCP546 Absolute Vibration Transmitter



- Absolute Vibration Output
- Low Cost
- Small Size
- DIN Rail Mount
- Proximity Probe and Velocity Input
- 4-20mA Output
- Fault Detection
- Buffered ABS Output

The CMCP546 Absolute Vibration Transmitter combines two (2) inputs, Shaft Relative using a Proximity Probe and Case Absolute using a Piezovelocity or Mechanical Velocity Sensor to produce Shaft Absolute In Displacement terms for use on heavy rotor/light case machines. Outputs include a 4-20mA transmitter signal for use by PLC/DCS and a buffered raw signal output representing the Absolute Vibration for use by Data Collectors and Analyzers. With the addition of the alarm module; OK, Alert and Danger set points, alarms and relays are provided.

Inputs: Two (2) Required

1. Velocity: Piezovelocity Transducer 100mV/ips or 500mV/ips
Mechanical Transducer 145mV/ips
Recommended Sensor CMCP793V or CMCP797V
2. Displacement: Proximity Probe 200mV/mil or 100mV/mil

Outputs:

Buffered Output (BNC): Absolute Vibration 200mV/mil or 100mV/mil
Transmitter Output: 4-20mA Output Linear to Full Scale Selected (5,10,15,20 or 25 mils)
LED: Power On and OK LED (Red=On, Green=OK)

Physical:

Mounting: DIN or G Rail Universal Mount
Size: 0.98" Wide x 3.95" Deep w/BNC x 3.11" High (1.6" Wide w/Relay Module)
Weight: 10 oz

Electrical Specifications:

Specifications:

Power: +24 VDC @ 60mA max. (With the Alarm/Relay option installed: 110mA max)
Protection: Reverse polarity and transient protection included
Sensor Power: Piezovelocity Sensor 4 mA provided.
Frequency Response: (-3dB) 4 Hz to 3 kHz
Buffered Output: BNC Connector 4 to 3 kHz Calculated Absolute Vibration.
Accuracy" 1.0% of Full Scale Range.
Output: 4-20mA proportional to the full scale range
Maximum Load: 600 Ohms Resistive. Case: Isolated

Environmental:

Operating Temp: -20°C to +80°C (-4°F to +176°F)
Storage Temp: -55°C to +125°C (-67°F to +257°F)
Relative Humidity: 0-95% Non-Condensing.



Vibration Monitoring and Machine Protection Systems

1010 East Main Street, League City, TX 77573 Phone: 281.334.0766 Fax: 281.334.4255
 www.stiweb.com / www.stiwebstore.com

Condition Monitoring Custom Products

Ordering Information:

Part#	Proximity	Velocity	Scale	Description
CMCP546(A)	-200			200mV/mil Input Proximity
	-100			100mV/mil Input Proximity
		-100V		100mV/in/sec Input Piezovelocity
		-500V		500mV/in/sec Input Piezovelocity
		-145EV		145 mV/in/sec Input Piezovelocity
			-05	0-5 mils Full Scale (0-127 microns)
			-10	0-10 mils Full Scale (0-254 microns)
			-15	0-15 mils Full Scale (0-381 microns)
			-20	0-20 mils Full Scale (0-508 microns)
			-25	0-25 mils Full Scale (0-635 microns)