

CMCP1000

Dual Limit Single Channel Vibration Monitor

**Features:**

- Solid State Reliability
- Integral Sensor
- Two Levels of Alarm with Relays
- True "OK" Circuit with Relay
- Adjustable Time Delays
- Trip Multiply
- 4-20mA Output
- LED Digital Readout

Description:

The CMCP1000 is a single channel Vibration Monitor with an integral accelerometer packaged in an explosionproof housing that is suitable for NEC Division I Hazardous Areas. It is designed to be mounted directly to rotating machinery and prevent catastrophic failure by shutting down the machine when vibration levels become excessive. Designed to comply with rigid API670 standards, the CMCP1000 far exceeds the capabilities of competitive vibration switches. In addition to the key features listed above, the CMCP1000 offers a buffered transducer output for detailed diagnostics and optional high-pass and low-pass filters to monitor specific frequency bands. The CMCP1000 uses STI's CMCP530A single channel vibration monitor and a bright red, daylight visible, LED display. An optional external push button reset switch is also available.

Technical Specifications:

Measurement Type:	Velocity RMS or Peak (Refer to CMCP530A Datasheet)
Frequency Response:	2Hz to 2,000Hz
Full Scale Range:	See Ordering Information
Accuracy:	±5% of Full Scale
Display:	3.5 Digit, 0.50" (12.5mm) LED
Output:	4-20mA
Conduit Entry:	Two (2), 3/4" NPT Inlets
BNC Buffered Output:	100mV/g, 0-20kHz

Alarms:

Alarms:	Two Adjustable Alarms (Alert and Danger)
Alarm Indication:	Yellow and Red LED Indicators
Alarm Time Delay:	Programmable, 1 to 10 Seconds
Relays:	3 SPDT (OK, Alert and Danger)
Relay Rating:	5 Amps, 250VAC

Power:

Voltage:	+24VDC ±20%
Current:	<100mA

Environmental:

Operating Temperature: -20°F to 80°C
Humidity: 0-95% Non-Condensing

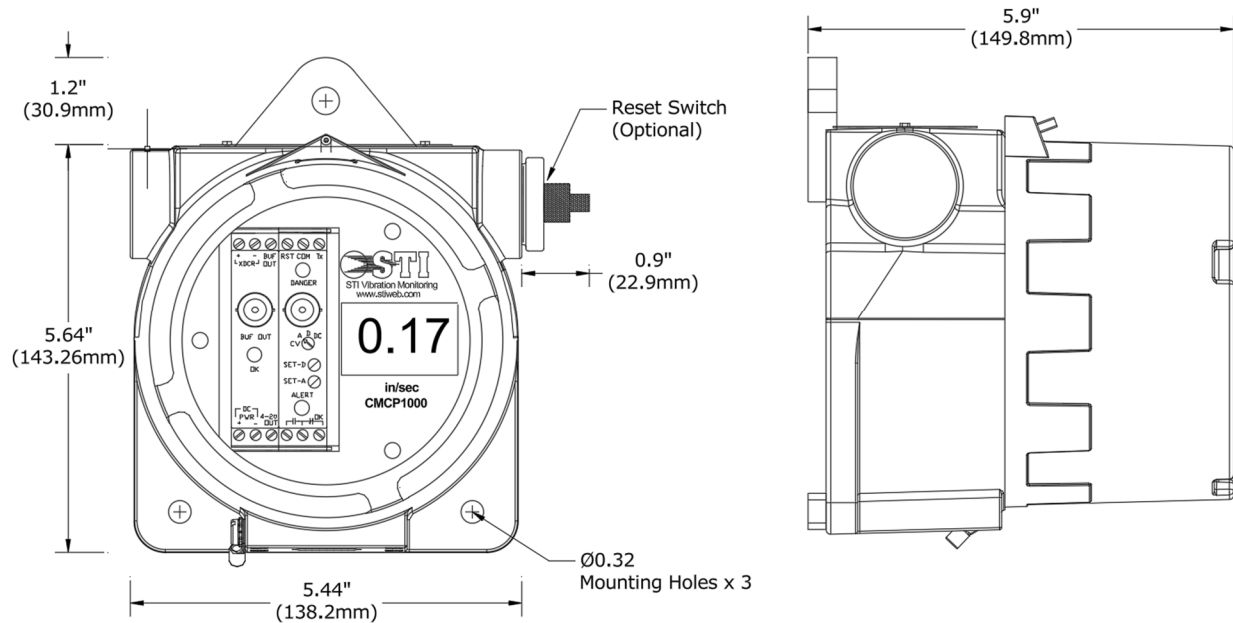
Approvals:

FM/CSA: Class I Division 1, Group B,C and D
Class II/III Division 1, Group E, F and G
IP Rating: IP67

Internal Components:

Vibration Monitor: CMCP530A-100A-R-ISO (RMS Option)
CMCP530A-100A-P-ISO (Peak Option)
Vibration Sensor: CMCP1100-01-00
Display: CMCP505

Dimensions:



Ordering Information:

CMCP1000	-XX	-XX	Description
	-01		0-1.00 in/s Measurement Range
	-02		0-2.00 in/s Measurement Range
	-25		0-25 mm/s Measurement Range
	-50		0-50 mm/s Measurement Range
	-P		Peak Detection
	-R		RMS Detection
		-00	Without External Reset Switch
		-RST	With External Reset Switch

Example: CMCP1000-01-R-RST
Vibration Switch
0-1.00 in/s RMS Range
With External Reset Switch

