**MODEL FC-1000**

**ELECTRONIC FAN SPEED CONTROL**

Low Cost, 0 to 10 VDC Input, Selectable Hard Start

The **Model FC-1000 Electronic Fan Speed Control** provides precise speed modulation of small AC motors. Popular 0 to 10 VDC input works with most process controllers, eliminating the need for more expensive dampers, damper actuators, and linkages while improving overall energy efficiency of the system. This inexpensive unit enables variable control ventilation fans, condenser fans, and interfacing with VAV box controllers.

**FEATURES/BENEFITS**

- Compact design allows for use in most areas
- Improves energy efficiency in systems

**APPLICATIONS**

- Monitoring fans and motors

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**SPECIFICATIONS**

- **Line Voltage Range:** 120 to 277 VAC, 60 Hz.
- **Input Signal Voltage:** 0 to 10 VDC.
- **Low Voltage Input:** 24 VAC, class 2.
- **Input Signal Impedance:** 10K Ω.
- **Full Load Amp Rating:** 9.8 @120 VAC, 9.3 @ 208 VAC, 8.0 @ 240 VAC, 6.9 @ 277 VAC.
- **Locked Rotor Amp Rating:** 24.0.
- **Temperature Limits:** -40 to 131°F (-40 to 55°C).
- **Electrical Connections:** Line voltage: 10-32 screw terminals. Signal and low voltage input: 1/4˝ quick connects.
- **Transient Protection:** 320 V surge suppression. Exceeds IEEE C62.41 standards.
- **Housing Materials:** Cold rolled steel.
- **Enclosure Rating:** NEMA 1.
- **Mounting:** Vertical only; four holes provided for #10 screws.
- **Weight:** 1 lb 11 oz (.77 kg).
- **Agency Approvals:** UR.

**MODEL VBT-1**

**VIBRATION TRANSMITTER**

Continuous 4 to 20 mA Output Signal

The **Model VBT-1 Vibration Transmitter** continuously detects the vibration in a system and monitors for unusual operating conditions and potential failure. The vibration is converted into an analog signal at the current output. The 2-wire loop power operation, combined with standard M12 micro cable connector and interchangeable mounting studs, make for a fast and reliable installation.

**FEATURES/BENEFITS**

- Easy set-up and operating concept
- Stainless steel housing
- No software required

**APPLICATIONS**

Vibration monitoring for:
- Motors
- Pumps
- Fans
- Engines
- Compressors
- Gear boxes

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**SPECIFICATIONS**

- **Housing Material:** 316 SS.
- **Temperature Limit:** -22 to 221°F (-30 to 105°C).
- **Accuracy:** < ±3%.
- **Connections:** M12 connector.
- **Enclosure Rating:** NEMA 6 (IP68).
- **Electrical Rating:** 9.6 to 32 VDC.
- **Mounting Orientation:** Any position.
- **Nonlinearity:** < ±0.25% of span.
- **Frequency Range:** 10 to 1000 Hz.
- **Output Signal:** 4 to 20 mA.
- **Repeatability:** < 0.5%.
- **Weight:** 0.28 lb (0.125 kg).
- **Agency Approvals:** CE.

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