

177230 Seismic Transmitter

Applications and Benefits

Baker Hughes has released a new seismic transmitter for basic machinery protection when used as part of a PLC or control (DCS or SCADA) system. The new 177230 Seismic Transmitter has a 4 to 20 mA primary signal output and a secondary dynamic signal (voltage) for diagnostics. It is a completely self-contained unit that looks like a standard accelerometer. The 177230 seismic transmitter joins the existing Bently Nevada family of transmitters consisting of the 990 Vibration Transmitter, and the 991 Thrust Transmitter.

Product Application

Transmitters do not supply the level of data required to diagnose machine problems; however, they are a practical solution in some applications for measuring general vibration levels. When integrated into control or monitoring systems, measurements supplied via transmitter systems are a valuable tool for overall vibration trending.

The 177230 Seismic Transmitter is targeted for use on auxiliary or general-purpose machinery assets with rolling element bearings—such as motors and small reciprocating compressors where advanced diagnostic ability is not financially justifiable.

Benefits

- **Reliable.** Designed for long life and accurate, trouble-free performance.
- **Lightweight and Robust.** Moisture resistant and drop impact tolerant.
- **Compatibility.** A two-wire, 4 to 20 mA dc signal loop enables compatibility with virtually all types of control and monitor systems.
- **Easy Implementation.** No field configuration or adjustments.
- **Safety Compliant.** Safe and ergonomic design; approvals support access to hazardous areas.



Features

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| Two available signals | Primary 4 to 20 mA Velocity (0-1 IPS, 10-1,000 Hz, rms, 4-20mA) |
| | Secondary (for diagnostics) Dynamic Output Acceleration (Unbuffered 100 mV/g, 4-10,000 Hz) |
| Multi-Approved | CE |
| | ATEX Class 1, Zone 2 (pending) |
| | CSA Class 1, Div 2/Zone 2 (pending) |
| Temperature Performance | -40°C to +85°C (-40°F to +185°F) |
| Simple Platform | Industry Standard Interfaces |