GE's Bently Nevada

2300 Vibration Monitor Series

Description

The 2300 Vibration Monitor series provides cost-effective continuous vibration monitoring and protection capabilities for less critical and spared machinery. It is specifically designed to continuously monitor and protect essential balance-of-plant equipment assets in a wide range of industries including: oil & gas, power generation, water treatment, pulp & paper, manufacturing, mining, cement, and a wide range of equipment in other industries.

The 2300 Vibration Monitor series delivers vibration monitoring and high vibration level alarming. It includes two channels of seismic measurement inputs from various accelerometer types, a speed input channel for time-synchronous measurements, and outputs for relay contacts. The 2300/20 monitor features a configurable 4-20 mA output which interfaces more points to a DCS. The 2300/25 monitor features System 1* connectivity for Trendmaster SPA interface configuration which enables users to leverage existing DSM SPA infrastructure.

Key Features

- Robust, compact, self-contained device
- 127 x 127 x 76 mm (5 x 5 x 3 in) device size
- Two acceleration inputs with parallel sampling and speed channel synchronization
- Many online measurements (Direct 0-pk, pk-pk, True RMS, derived pk, integrated direct pk) with alarm configuration
- Two protection relays
- Two protection relay outputs with configurable set points
- One dedicated speed/KPH input (Proximitors*, Proximitor switch or magnetic pickup)
- Local monitor status LEDs
- Local display showing overall values and speed
- Convenient local and remote reset for alarms and relays
- BNMC (Bently Nevada Monitor Configuration) device configuration and display software
- Local configuration lockout and remote configuration lock (two reserved contacts)
- Three 1:1 buffered transducer outputs (including speed signal) with short circuit and EMI protection, via BNC connectors
- 24 VDC and optional 240/110 V DIN rail mounted power supplies
- Ethernet connectivity with Modbus functionality
- Continuous monitoring and protection suitable for BOP applications
- Next generation platform
- Configurable 4-20 mA output available on the 2300/20 monitor
- Trendmaster SPA interface configuration available on the 2300/25 monitor

The 2300 Vibration Monitor series is designed for use on a broad range of machine trains or individual casings where the sensor point count fits the monitor’s channel count and where advanced signal processing is desired.

The 2300 Vibration Monitor series provides very low cost condition monitoring and protection capability on less critical and essential machinery.
Benefits

- Compact form factor and skid or local mounting capability reduces wiring and installation cost
- Configurable measurements from each channel fit individual customer needs
- Synchronous data acquisition and measurements, and flexibility for multiple tachometer types
- Key machine and monitor information clearly displayed at the monitor; no separate display required compliments operation-driven reliability (ODR)
- Meets individual customer alarm reset needs: can reset either locally or in control center
- Overall Data and Event displayed on BNMC and enables easy 2300 Vibration Monitor series configuration
- Secure, tamper-proof configuration management
- Enables portable data collectors data collection from the 2300 Vibration Monitor series
- Operates from low- or high-voltage power source
- Provides needed PdM condition monitoring data
- Expandable architecture
- Advanced technology electronics and signal processing
- Future System 1* connectivity