1900/65 General Purpose Equipment Monitor

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We are pleased to announce the new Bently Nevada® 1900/65 General Purpose Equipment Monitor. This flexible, cost-effective system is specifically designed to continuously monitor and protect essential and balance-of-plant equipment assets in a wide range of industries including: Oil & Gas, Power Generation, Water Treatment, Pulp & Paper, Manufacturing, Mining, Cement, and others.

Traditional rack-based monitoring systems like the Bently Nevada 3500 Series are widely accepted for protecting large, complex rotating machinery, but it is generally difficult to justify this type of continuous monitoring for less-critical equipment. As a result, these machines typically operate without adequate protection. While simple devices such as 4-20 mA transmitters are available, they offer very limited capabilities and require additional devices to convert the 4-20 mA signals to "protection."

The 1900/65 Monitor is suitable for monitoring and protecting cooling tower fans, pumps, blowers, motors, pulverizers, air compressors, small reciprocating compressors, small electric motors, small hydro turbines, centrifuges, and other equipment assets. It can be easily retrofit on existing machines or used by original equipment manufacturers (OEMs) for cost-effective inclusion on smaller skid-mounted and packaged machines.

The 1900/65 provides extensive capabilities: eight input channels; six configurable alarm relays; four 4-20 mA outputs; buffered output facilities for easy connection to portable diagnostic instruments; Microsoft® Windows®-based configuration software; an optional easy-to-read display that can be mounted locally or up to 75 meters (250 feet) away; and an optional IP65-rated weatherproof housing (or door for panel-mount applications).

FEATURES

- **Inputs:** 8 total (4 vibration and 4 temperature)
- **Outputs:** 6 discrete (individually programmable relays), 4 proportional (4-20 mA)
- **Alarms:** Alert and Danger levels individually configurable per measurement variable (up to 8 per channel); NOT OK individually configurable per channel
- Flexible, cost-effective system
- Continuous online protection
- Improved capability/convenience over transmitters
- Optional display module (can be mounted locally on monitor or up to 75 meters away)
- Designed for cost-effective installation on existing machines, or by OEMs for inclusion with new machine packages
- Buffered output capabilities for easy connection to portable instruments

Special emphasis has been placed on a highly configurable and flexible design that can be easily adapted for individual applications and provides multiple measurement parameters for each input sensor. A single seismic sensor input, for example, can return up to four different measurement parameters incorporating bandpass filtering, integration, RMS or Peak detection, bias voltage, and acceleration enveloping. Combined, the vibration and temperature inputs can be processed into 20 different measurement variables of the user's choosing, each with its own alarms, providing high measurement density in a very small package. Alarm logic is also highly configurable – users can incorporate sophisticated voting logic between various parameters and channels in virtually unlimited combinations.

The optional display module provides new installation freedom. Mount the monitor where wiring costs will be minimized (such as near the machines), and mount the display where it is most convenient for personnel to access (such as a shelter or control room) – up to 75 meters away. Or, eliminate the display altogether when a "blind" monitoring system is all that is needed.

Now, there is a system that provides the balance of functionality and affordability that you need to monitor your essential and balance-of-plant equipment assets.

learn more online at
http://www.bently.com/prod/newprod/newb.htm#1900-65