MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

3300 SYSTEM

3300/39-03-00

MACHINERY MONITORING MODULE

Used with the applicable 3300 System configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Bently Nevada 3300/39-03-00 manufacturer documentation

3300/39 Dual-Channel Process Variable Monitor

Bently Nevada™ Asset Condition Monitoring

Description

The 3300/39 Dual-Channel Process Variable Monitor monitors machine-critical parameters that exist as process variable signals, such as pressure, flow, and load.

⚠ Warning

Bently Nevada 3300 Series Process Variable Monitors are not designed for use independently as, or a component of, a control or shutdown system. Bently Nevada Process Variable Monitors do not provide protective redundancy and the response speed needed for reliable operation as a control or shutdown system. Where provided, the analog proportional output is suitable for data logging or chart recording purposes only. Also, where provided, Process Variable alarm setpoints are suitable for annunciation purposes only.

Failure to take the above warnings into account constitutes a misuse of the product and may result in property damage and/or injury. When process variable inputs are to be used for machine protection functions, our 3500 series machinery protection system should be used instead.

Specifications

Inputs

Signal:

ISA transmitter or equivalent with + 4 to + 20 mA or + 1 to + 5 Vdc output proportional to full-scale variable to be monitored.

Input Impedance:

250 Ω/300 M Ω.

Power Consumption:

Nominal 1.5 watts.

Signal Conditioning

Accuracy:

Specified at ambient temperature of +25°C (+77°F).

Within ±0.33% of full-scale typical, ± 2% ±32 mV offset, maximum.

Outputs

Recorder:

User programmable for +4 to +20 mA, 0 to -10 Vdc, or +1 to +5 Vdc. Voltage or current outputs are proportional to the transmitter input. Individual recorder outputs are provided for each channel. Monitor operation is unaffected by short circuits on recorder outputs.

Recorder accuracy (in addition to signal conditioning accuracy):

All specified at +25°C (+77°F).

+4 to +20 mA: ±0.7% of signal, ±0.09 mA offset.

+1 to +5 Vdc: ±1.1% of signal, ±10 mV offset.

0 to -10 Vdc: ±1.1% of signal, ±14.5 mV offset.

Output Impedance (voltage outputs):

100 Ω. Minimum load resistance is 10 k Ω.

Voltage Compliance (current outputs):

0 to +12 Vdc range across load. Load resistance is 0 to 600 Ω when using +4 to +20 mA option.

Buffered Outputs:

+1 to +5 Vdc. One coaxial connector per channel on the front panel and one terminal connection per channel on the rear panel. All are short circuit protected.

Alarms

Alarm Setpoints:

Both alarms (Alarm 1 and Alarm 2) are digitally adjustable from 0 to 100% of full-scale and can be set within LCD resolution (1.6% of full-scale) to a desired level. Once set, alarms are repeatable within ±0.4% of full-scale.

Relay Modules

Location:

One relay module can be installed behind each monitor. At least one relay module must be ordered with each 3300 System.

Display

Meter:

Nonmultiplexing vertical bargraph type Liquid Crystal Display (LCD). 63 individual LCD segments per channel. LCD also displays error codes and monitor adjust mode.