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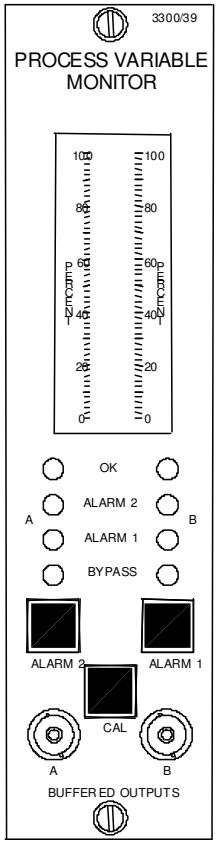
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Find the *GE / Bently Nevada 3300/39-01-00* at our website: *Click HERE*

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.

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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.

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Resolution:

Within ±1.6% of monitor full-scale.

Size:

83 mm (3.2 in), vertical dimension.

LED Indicators

OK:

One constant ON green LED per channel to indicate OK condition of monitor, transmitter, and field wiring. Constant OFF indicates Not OK condition or channel bypassed (red Bypass LED will be ON). OK LED flashing at 1 Hz indicates input signal has been Not OK but is now OK. OK LED flashing at 5 Hz indicates error code(s) stored in memory. If neither the OK LED nor the red Bypass LED is ON, the channel is turned OFF.

Alarm:

Two red LEDs per channel indicate alarm status (independent Alarm 1 and Alarm 2 LEDs for each channel). Flashing alarm LED indicates First Out (independent for Alarm 1 and Alarm 2).

Bypass:

Two red LEDs indicate status of Alarm 2 Bypass and Rack/Channel Bypass functions.

Environmental Limits

Operating Temperature:

0°C to +65°C (+32°F to +150°F).

Storage Temperature:

-40°C to +85°C (-40°F to +185°F).

Relative Humidity:

To 95%, noncondensing.

CE Mark Directives

EMC Directive

Certificate of Conformity: 158710

Low Voltage Directive

Certificate of Conformity: 135300

Hazardous Area Approvals

CSA/NRTL/C

Class I, Div 2

Groups A, B, C, D

T4 @ Ta = +65 °C

Certification Number

150368 – 1002151 (LR 26744)

ATEX

 II 3 G

EEx nC[L] IIC

T4 @ Ta = -20°C to +60°C

When installed per document number 132577-01.

Certification Number

BN26744C-55A

Physical

Space Requirements:

First and second slot in rack position are reserved for Power Supply and System Monitor, respectively. The monitor can be placed in any other available rack position. Rack size will depend on the number of monitors used.

Weight:

1 kg (2.2 lbs.).

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Ordering Information

For spares, order the complete catalog number as described below. This includes a front panel assembly, monitor PWAs with sheet metal, and appropriate relay module. This unit is optioned, tested and ready to install in your system. Spare relay modules can be ordered separately.

Dual-Channel Process Variable Monitor

3300/39-AXX-BXX

A: Alarm Relay Option

0 0	No Relays
0 1	Epoxy-sealed
0 2	Hermetically-sealed
0 3	Quad Relay (Epoxy-sealed only)
0 4	Spare Monitor-No SIM/SIRM

Notes:
1. At least one relay module must be ordered with each 3300 System. If one common relay module per system has been ordered, all other monitors of this type will be jumper-programmed at the factory to activate relay-bus two.
2. AND voting logic is not available with Quad relays.

B: Agency Approval Option

0 0	Not required
0 1	CSA/NRTL/C

Note: CSA/NRTL/C option is only available with relays when the monitor is ordered in a system.

Spare Relay Module Assemblies

122241-01

No Relays

122242-01

Dual Epoxy Relays

122243-01

Dual Hermetic Relays

122244-01

Quad Relays

Field-programmable Options

These options are field-programmable via plug-in jumpers. **Bold text** indicates options as shipped from the factory.

First Out Option

Enabled

Disabled

Alarm Time Delay Option

0.1 second

1 second

3 seconds

6 seconds

OK Mode Option

Nonlatching

Latching

Not OK Channel Defeat

Enabled

Disabled

Alarm 1 Reset Option

Latching

Nonlatching

Alarm 2 Reset Option

Latching

Nonlatching

Recorder Outputs Option

+4 to +20 mA

+1 to +5 Vdc

0 to -10 Vdc

Recorder Clamping Mode

(+4 to +20 mA only with Not OK Channel Defeat enabled).

Not OK = 4 mA

Not OK = 2 mA

Alarm 2 Relay Voting Logic

OR voting for relay drive

AND voting for relay drive

Note: For Quad Relays, AND voting logic must be done externally by wiring the contacts in series.

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Alarm 1 Relay Mode Option

Normally de-energized

Normally energized

Alarm 2 Relay Mode Option

Normally de-energized

Normally energized

Alarm 2 Bypass Switch Option

Disabled

Enabled

Channel B Off Mode Option

Disabled

Enabled

Meter Response Time

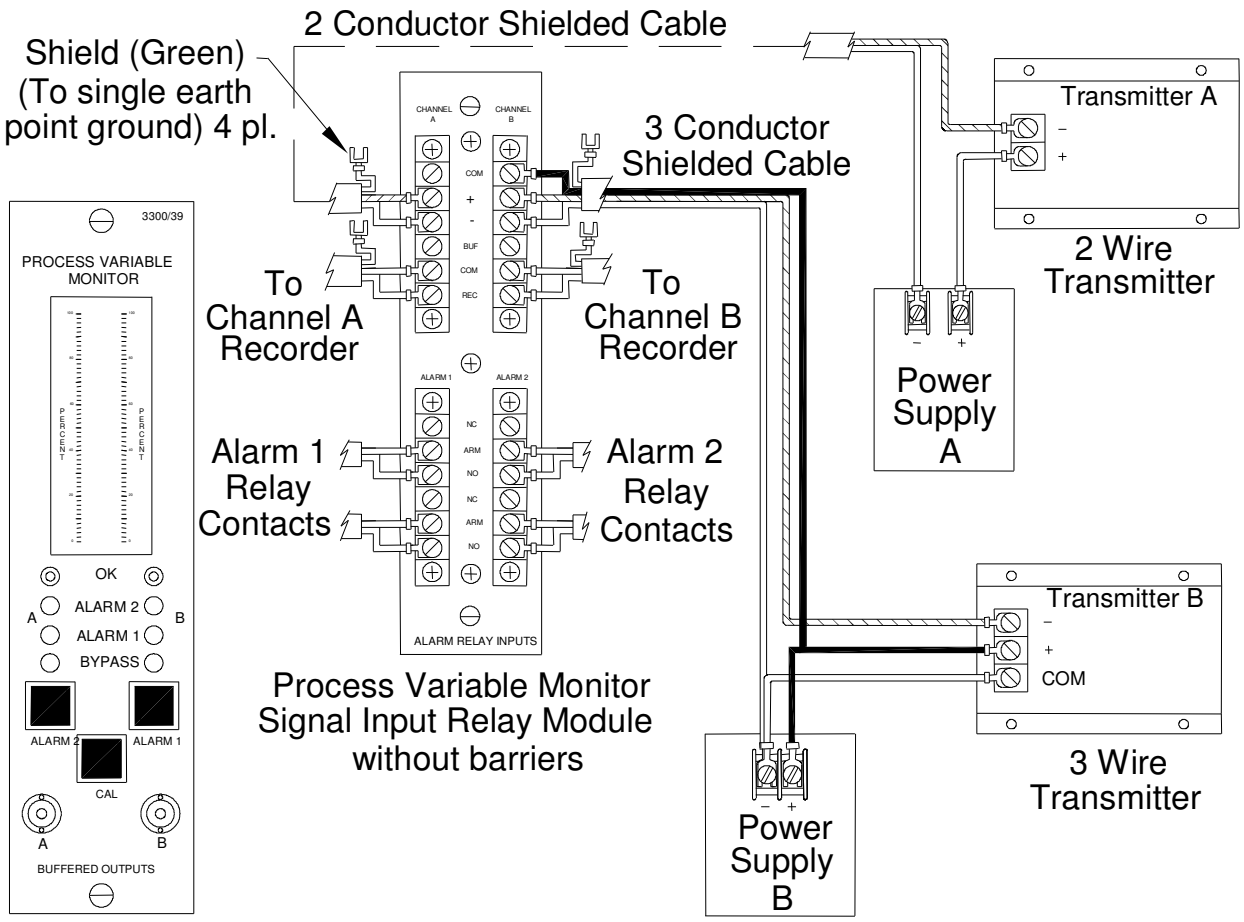
Fast

Slow

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Field wiring diagram

3300/39 Dual-channel Process Variable Monitor



Field wiring diagram for 3300/39 Process Variable Monitor

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