

# Bently Nevada 990-10-50-01-01 Manual

|                |                           |
|----------------|---------------------------|
| Brand          | Bently Nevada             |
| Product Series | 991&990                   |
| Product Type   | 990 Vibration Transmitter |

## Description

Manufacturer : Bently Nevada

Product No. : 990-10-50-01-01

Product Type : 990 Vibration Transmitter

Made in U.S.A

Full-scale Option : 10 0-10 mils pp (0-250  $\mu$ m pp)

System Length Option : 50 5.0 meters (16.4 feet)

Mounting Option : 01 35 mm DIN rail clips

Agency Approval Option : 01 CSA Division 2

Input : Accepts 1 non-contacting 3300 NSv Proximity Probe and extension cable.

Power : Requires +12 to +35 Vdc input at the transmitter terminal.

Maximum Loop Resistance : 1,000  $\Omega$  including cable at 35 Vdc.

Current Limiting : 23 mA typical.

Transmitter  
weight 0.43 kg (0.9 lbm).

Input  
Accepts 1 non-contacting 3300  
NSv Proximity Probe and  
extension cable.  
Power Requires +12 to +35 Vdc input at  
the transmitter terminal.

4 to 20 mA

signal output

4 to 20 mA<sub>dc</sub> over specified fullscale range in 2-wire configuration.

4 to 20 mA loop

accuracy

Within  $\pm 1.5\%$  over specified fullscale range. Accuracy is rated from the TEST signal input to the voltage measured across a 250  $\Omega$  loop resistance. The  $\pm 1.5\%$  error is in addition to the Prox Out Incremental Scale Factor.

Probe gap

Probe must be gapped between 0.5 and 1.75 mm (20 and 55 mils) from target to ensure full scale range.

Maximum loop

resistance 1,000  $\Omega$  including cable at 35 V<sub>dc</sub>.

Current limiting 23 mA typical.

Zero and span

Non-interacting external adjustments.

NOT OK/signal

defeat

Signal output will go to less than 3.6 mA within 100  $\mu$ s after a Not OK condition occurs. Signal output is restored within 2-3 seconds after the Not OK condition is removed.

Frequency

response

5 Hz to 6,000 Hz +0, 3 dB.

Minimum

target size 9.5 mm (0.375 in) diameter.

Leadwire

length

Maximum for Proximity Sensor

Output (BNC connector), maximum cable distance is 3 meters (10 feet).

NonHazardous,

Zone 2 or Div 2

Hazardous

area locations

Power Supply: 28 V

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