

Bently Nevada 990-04-70-02-05 Manual

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

Description

Manufacturer : Bently Nevada

Product No. : 990-04-70-02-05

Product Type : 990 Vibration Transmitter

Made in U.S.A

Full-scale Option : 04 0-4 mils pp (0-100 μ m pp)

System Length Option : 70 7.0 meters (23.0 feet)

Mounting Option : 02 Bulkhead screws

Agency Approval Option : 05

CSA Division 2, ATEX Zone 0, ATEX

Zone 2 and includes ABS

maritime approval

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 Ω 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_{dc} 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 Ω including cable at 35 Vdc.

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 μ 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 $\pm 0, 3$ 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

