Bently Nevada 991&990 Series Service Manual

991-25-70-03-05

1. Description

Manufacturer : Bently Nevada

3. Product Information

Manufacturer : Bently Nevada

Product No. : 991-25-70-03-05

Product type : Probe Vibration Transmitter

Made in U.S.A

Ordering Information

Model: 991 - Thrust Transmitter

Full-scale Option: -25 25-0-25 mils

System Length Option: -70 7.0 meters (23.0 feet)

Mounting Option: 03 DIN clips and screws

Agency Approval Option: 05

CSA Division 2, ATEX Zone 0, ATEX

Zone 2 and includes ABS

maritime approval

Mount : DIN rail

Output signal : 4-20 mA

Use : Axial

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

Linear Range : 0.25 to 1.65 mm for Prox Out. Suitable for 0.6-0-0.6 mm or 25-0-25 mils current loop linear ranges

Environmental Limits

Transmitter Temperature

Operating

Temperature

-35°C to +85°C

(-31°F to +185°F)

Storage

Temperature

-51°C to +100°C

(-60°F to +212°F).

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 mAdc over specified full-scale

range in 2-wire configuration.

4 to 20 mA Loop

Accuracy

Within ±1.5% over specified full scale

range (typical). Accuracy is rated

from the TEST signal input to the

voltage measured across a 250 □

loop resistance.

Maximum Loop

Resistance

1,000 □ 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 µs after a Not OK

condition occurs. Signal output is restored within 0.1 seconds after the Not OK condition is removed.