990 VIBRATION TRANSMITTER

Product Data Sheet

990-04-70-01-01

Two-wire shaft vibration transmitter

FULL-SCALE VIBRATION	CALIBRATED CHAIN LENGTH	MOUNTING HARDWARE	APPROVAL SELECTION
0-4 mils pp / 0-100 um pp	**7.0 m**	**35 mm DIN rail clips**	**01: CSA Division 2**

Bently Nevada 990-04-70-01-01 is a 990 vibration transmitter that converts a 3300 NSv probe signal to a two-wire 4-20 mA loop. This execution is calibrated for a 0-4 mils pp / 0-100 um pp vibration span and a 7 m probe-plus-extension chain.

01 TECHNICAL DATA

Full-scale vibration	0-4 mils pp / 0-100 um pp
Calibrated chain length	7.0 m
Mounting hardware	35 mm DIN rail clips
Approval selection	01: CSA Division 2
Supply input	12 to 35 V DC
Loop output	4 to 20 mA, two wire
Loop accuracy	+/-1.5% of full scale
Loop resistance limit	1000 ohm at 35 V DC
Current limiting	23 mA typical
Not-OK output	Below 3.6 mA

02 ADDITIONAL PRODUCT DATA

Power-up inhibit	2 to 3 seconds
Prox Out impedance	10 kohm
Probe input	One NSv probe and extension
Frequency response	5 Hz to 6 kHz
Operating temperature	-35 to +85 C

03 PRODUCT FUNCTION

The selected mounting arrangement is 35 mm din rail clips, and the approval choice is 01: csa division 2. A 12-35 V DC supply powers the transmitter at its terminals. The unit has external zero and span adjustments and a separate non-isolated Prox Out connection for the dynamic transducer signal.

04 SYSTEM COMPATIBILITY

Provide 12-35 V DC at the transmitter terminals after allowing for cable and receiving-instrument voltage drops. Maximum loop resistance is 1000 ohm at 35 V DC. Set the probe gap within the published 0.5-1.75 mm range and verify the low-current Not-OK condition before calibration.

05 REFERENCE

Bently Nevada 990 Vibration Transmitter Datasheet 141612 Rev. Y, applicable specification, ordering and dimensional sections.

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