

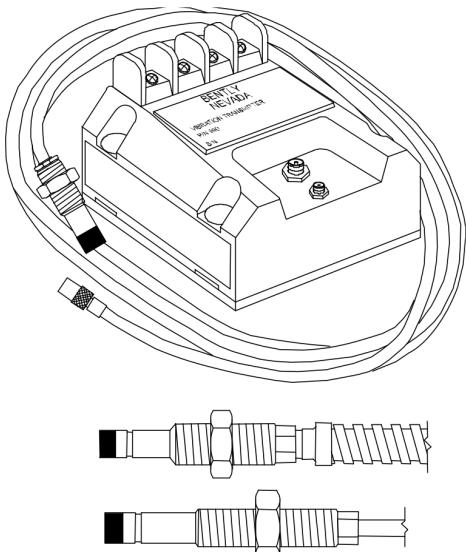
991 Thrust Transmitter

Datasheet

Cordant™

141618 Rev. P

Description



The 991 Thrust Transmitter is intended primarily for the original equipment manufacturers (OEMs) of centrifugal air compressors or small pumps, motors, or fans who prefer to provide a simple 4 to 20 mA proportional axial displacement (thrust) signal as the input to their machinery control system. The transmitter is a 2-wire, loop-powered device that accepts input from our 3300 NSv proximity probe and its matching extension cable (available in 5 m and 7 m system length options). The transmitter conditions the signal into appropriate engineering units proportional to the shaft's axial position¹, and provides it as a 4 to 20 mA industry-standard signal for input to the control system where machinery protection alarming and logic occurs².

The 991 transmitter provides the following notable features:

- Integrated Proximitor Sensor requires no external unit
- Non-isolated PROX OUT and COM terminals plus a coaxial connector provide a dynamic vibration and gap voltage signal output for diagnostics³.
- Non-interacting zero and span potentiometers under the Transmitter label supports loop adjustment.
- Test Input pin allows quick verification of loop signal output, using a variable DC voltage source as the input.
- A Power-up Inhibit circuit eliminates signal errors due to line voltage transients.
- A Not OK/Signal Defeat circuit prevents high outputs or false alarms due to a faulty proximity probe or loose connection.
- Choice of DIN-rail clips or bulkhead mounting screws as standard options simplifies mounting.
- Potted construction for high humidity (up to 100% condensing) environments.
- Compatibility with 3300 NSv proximity probe allows transducer installation in small areas with minimal



Baker Hughes 

Ordering Information



For the detailed listing of country and product-specific approvals, refer to the [Approvals Quick Reference Guide \(108M1756\)](#).

For additional technical documentation, please log in to [bntechsupport.com](#) and access the Bently Nevada Media Library.

991-AA-BB-CC-DD

A: Full-scale Option

06	0.6-0-0.6 mm
25	25-0-25 mils

B: System Length Option

50	5.0 meters (16.4 feet)
70	7.0 meters (23.0 feet)

C: Mounting Option

01	35 mm DIN-rail clips
02	Bulkhead screws
03	DIN clips and screws

D: Agency Approval Option

00	Not required
01	CSA Division 2
05	CSA Division 2, ATEX Zone 0, ATEX Zone 2 and includes ABS maritime approval

3300 NSv Proximity Probes

Part Number-AA-BB-CC-DD-EE

330901	3300 NSv Probe, 1/4-28 UNF thread, without armor.
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330902	3300 NSv Probe, 1/4-28 UNF thread, with armor.
330908	3300 NSv Probe, 3/8-24 UNF thread, without armor.
330909	3300 NSv Probe, 3/8-24 UNF thread, with armor.

A: Unthreaded Length Option



Unthreaded length must be at least 0.7 in less than the case length.

Order in increments of 0.1 in

Length configurations:

Minimum length: 0 in

Maximum length: 9.2 in

Example: **04** 0.4 in

B: Case Length Option

Order in increments of 0.1 in

Threaded length configurations:

Minimum length: 0.8 in

Maximum length: 9.9 in

Example: **35** 3.5 in

C: Total Length Option

05 0.5 meter (1.67 feet)

10 1.0 meter (3.25 feet)

50 5.0 meters (16.4 feet)

70 7.0 meters (23 feet)

D: Connector Option

01 Miniature coaxial ClickLoc connector with connector protector, standard cable

02 Miniature coaxial ClickLoc connector, standard cable

11	Miniature coaxial ClickLoc connector with connector protector, FluidLoc cable
12	Miniature coaxial ClickLoc connector attached, FluidLoc cable
E: Agency Approval Option	
00	Not required
05	Multiple Approvals (CSA NRTL/C and BASEEFA/CENELEC, which includes CSA Division 2)

3300 NSv Probes, Metric

Part Number-AA-BB-CC-DD-EE

330903	3300 NSv Probe, M8 x 1 thread, without armor.
330904	3300 NSv Probe, M8 x 1 thread, with armor.
330905	3300 NSv Probe, M10 x 1 thread, without armor.
330910	3300 NSv Probe, M10 x 1 thread, with armor.

A: Unthreaded Length Option



Unthreaded length must be at least 20 mm less than the case length.

Order in increments of 10 mm

Untreaded length configurations:

Minimum length: 0 mm

Maximum length: 230 mm

Example: **06** 60 mm

B: Case Length Option

Order in increments of 10 mm

Minimum length: 20 mm

Maximum length: 250 mm

Example: **25** 250 mm

C: Total Length Option

05	0.5 meter (1.67 feet)
10	1.0 meter (3.25 feet)
50	5.0 meters (16.4 feet)
70	7.0 meters (23 feet)

D: Connector Option

01	Miniature coaxial ClickLoc connector with connector protector, standard cable
02	Miniature coaxial ClickLoc connector, standard cable
11	Miniature coaxial ClickLoc connector with connector protector, FluidLoc cable
12	Miniature coaxial ClickLoc connector attached, FluidLoc cable

E: Agency Approval Option

00	Not required
05	Multiple Approvals (CSA NRTL/C and BASEEFA/CENELEC, which includes CSA Division 2)

3300 NSv Reverse Mount Probe

330906-02-12-CC-DD-EE, 3/8-24 UNF threads

330907-05-30-CC-DD-EE, M10 x 1 UNF threads

C: Total Length Option

05	0.5 meter (1.67 feet)
10	1.0 meter (3.25 feet)

50	5.0 meters (16.4 feet)
70	7.0 meters (23 feet)

D: Connector Option

02	Miniature coaxial ClickLoc connector, standard cable
12	Miniature coaxial ClickLoc connector attached, FluidLoc cable

E: Agency Approval Option

00	Not required
05	Multiple Approvals (CSA NRTL/C and BASEEFA/CENELEC, which includes CSA Division 2)

C: Agency Approval Option

00	Not required
05	Multiple Approvals (CSA NRTL/C and BASEEFA/CENELEC (which includes CSA Division 2)

Extension Cable**330930-AAA-BB-CC****A: Cable Length Option**

040	4.0 meters (13.1 feet)
045	4.5 meters (14.8 feet)
060	6.0 meters (19.7 feet)
065	6.5 meters (21.3 feet)

B: Armor Option

00	Without stainless steel armor
01	With FEP covered stainless steel armor
02	With stainless steel armor
03	Without stainless steel armor, with connector protector
04	With FEP covered stainless steel armor and connector protector
05	With stainless steel armor and connector protector