

990-05-70-01-00

990 two-wire vibration transmitter

CONTROLLED ENGINEERING COPY

Verify 990-05-70-01-00, the selected full-scale vibration range, total transducer length, mounting hardware, loop polarity and alarm scaling before removal; confirm Prox Out waveform and 4–20 mA scaling after installation.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	990-05-70-01-00
Manufacturer part	990-05-70-01-00
Hardware type	990-05-70-01-00
System family	990 vibration transmitter system
HS code	8537101190



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01 PRE-INSTALLATION PLAN

- 1

Verify the complete 990-05-70-01-00 marking and its assigned 990 vibration transmitter system position before work.
- 2

Place the connected pump radial-vibration monitoring process in the approved maintenance state.
- 3

Isolate applicable power and radial vibration converted to a 4–20 ma current-loop signal field energy before disconnecting conductors.
- 4

Record connector, conductor, address, firmware and software identities before removal.
- 5

Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.

MATCHED HARDWARE

- 3300 NSv probe
- matched extension cable and Proximity Sensor
- 12 to 35 VDC current loop
- PLC or DCS analog input

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	990-05-70-01-00 / 990-05-70-01-00 recorded
Physical interface	3300 NSv probe
Companion check	matched extension cable and Proximity Sensor
Functional proof	Accepts a matched 3300 NSv transducer signal
Application test	Pump radial-vibration monitoring

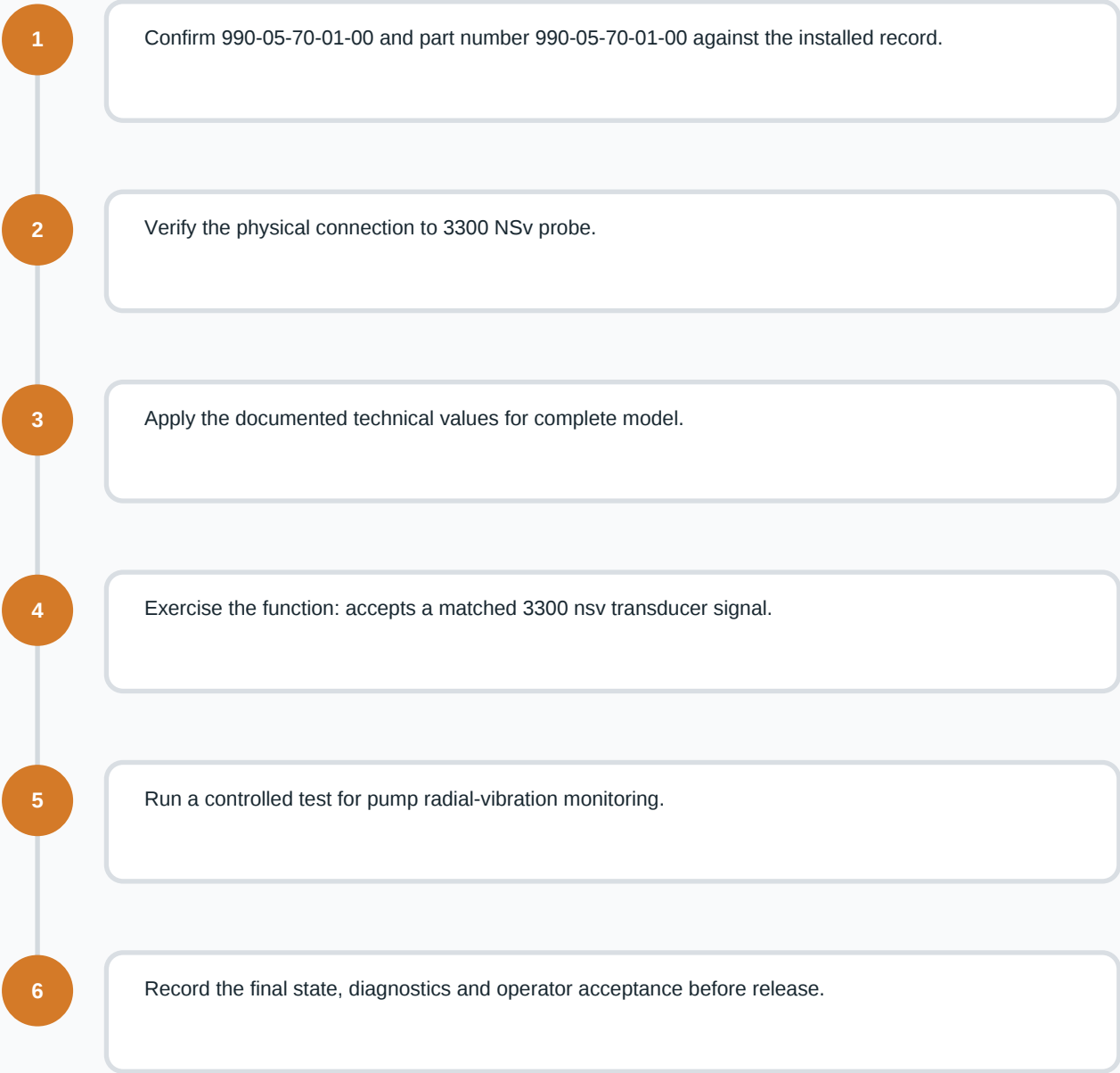
02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Complete model	990-05-70-01-00
Full-scale range	0 to 125 um peak-to-peak
System length	7.0 m
Mounting	DIN-rail clip
Agency approval	None
Transmitter type	2-wire, loop powered
Supply voltage	+12 to +35 V DC
Process output	4 to 20 mA
Input system	3300 NSv proximity transducer system
Frequency response	5 Hz to 6 kHz, +0/-3 dB
Loop accuracy	+/-1.5%
Prox Out scale factor	7.87 mV/um (200 mV/mil)
Prox Out impedance	10 kohm for 10 Mohm load
Maximum loop lead resistance	1000 ohm at 35 V DC

FIELD NOTE

Verify 990-05-70-01-00, the selected full-scale vibration range, total transducer length, mounting hardware, loop polarity and alarm scaling before removal; confirm Prox Out waveform and 4–20 mA scaling after installation.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	990-05-70-01-00 / 990-05-70-01-00 recorded
Physical interface	3300 NSv probe
Companion check	matched extension cable and Proximity Sensor
Functional proof	Accepts a matched 3300 NSv transducer signal
Application test	Pump radial-vibration monitoring

04 RETURN-TO-SERVICE RECORD

- ☐
- Confirm the installed 3300 NSv probe and matched extension cable and Proximitor Sensor against the approved project.
- ☐
- Restore power in a controlled sequence and review device, network and host diagnostics.
- ☐
- Prove the intended compressor shaft-vibration trending function and retain the final test result.
- ☐
- Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	990-05-70-01-00
INSTALLED POSITION	Documented 990 vibration transmitter system position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Bently Nevada 21747 080 00	Related Bently Nevada machinery-monitoring product	View Bently Nevada 21747 080 00 page
Bently Nevada 21504 00 24 10 02	Related Bently Nevada machinery-monitoring product	View Bently Nevada 21504 00 24 10 02 page
Bently Nevada CB2W100 125	Related Bently Nevada machinery-monitoring product	View Bently Nevada CB2W100 125 page
Bently Nevada CB2W100 064	Related Bently Nevada machinery-monitoring product	View Bently Nevada CB2W100 064 page
Bently Nevada 146056 15 10 02 02 05	Related Bently Nevada machinery-monitoring product	View Bently Nevada 146056 15 10 02 02 05 page
Bently Nevada 146054 32 05 01 05	Related Bently Nevada machinery-monitoring product	View Bently Nevada 146054 32 05 01 05 page
Bently Nevada 146056 38 10 02 02 05	Related Bently Nevada machinery-monitoring product	View Bently Nevada 146056 38 10 02 02 05 page
Bently Nevada 146054 36 05 01 05	Related Bently Nevada machinery-monitoring product	View Bently Nevada 146054 36 05 01 05 page

SOURCE IDENTIFIERS

Bently Nevada 990 Vibration Transmitter Datasheet
141612 Rev. Y

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