

APTER POWER FIELD WORKBOOK

INSTALLATION | APPLICATION | VERIFICATION

991-01-XX-01-CN MOD: 284318-01

991 two-wire thrust transmitter

CONTROLLED ENGINEERING COPY

Confirm the complete 991-01-XX-01-CN MOD: 284318-01 marking, MOD identity where present, matched 3300 NSv system length, mounting hardware, loop polarity and approved axial range; set zero and span only against the documented mechanical reference.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	991-01-XX-01-CN MOD: 284318-01
Manufacturer part	991-01-XX-01-CN MOD: 284318-01
Hardware type	991-01-XX-01-CN MOD: 284318-01
System family	991 thrust transmitter system
HS code	8537101190



APTER POWER SALES TEAM

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01 PRE-INSTALLATION PLAN

- 1

Verify the complete 991-01-XX-01-CN MOD: 284318-01 marking and its assigned 991 thrust transmitter system position before work.
- 2

Place the connected turbine thrust-position monitoring process in the approved maintenance state.
- 3

Isolate applicable power and axial displacement 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	991-01-XX-01-CN MOD: 284318-01 / 991-01-XX-01-CN MOD: 284318-01 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	Turbine thrust-position monitoring

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Complete model	991-01-XX-01-CN MOD: 284318-01
MOD identity	284318-01
Mounting option	DIN-rail clip
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
Loop accuracy	+/-1.5%
Buffered output	BNC Prox Out
Buffered output impedance	10 kohm for 10 Mohm load
Not OK current	Below 3.6 mA
Not OK response	Within 100 us
Recovery time	Within 0.1 s
Humidity	Up to 100%, condensing

FIELD NOTE

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03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	991-01-XX-01-CN MOD: 284318-01 / 991-01-XX-01-CN MOD: 284318-01 recorded
Physical interface	3300 NSv probe
Companion check	matched extension cable and Proximitior Sensor
Functional proof	Accepts a matched 3300 NSv transducer signal
Application test	Turbine thrust-position monitoring

04 RETURN-TO-SERVICE RECORD

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

VERIFICATION RECORD

- PRODUCT IDENTITY

991-01-XX-01-CN MOD: 284318-01
- INSTALLED POSITION

Documented 991 thrust 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 21500 00 12 10 02	Related Bently Nevada machinery-monitoring product	View Bently Nevada 21500 00 12 10 02 page
Bently Nevada 21500 00 32 05 02	Related Bently Nevada machinery-monitoring product	View Bently Nevada 21500 00 32 05 02 page
Bently Nevada 330851 04 000 040 10 01 00	Related Bently Nevada machinery-monitoring product	View Bently Nevada 330851 04 000 040 10 01 00 page
Bently Nevada 330881 28 05 050 03 02	Related Bently Nevada machinery-monitoring product	View Bently Nevada 330881 28 05 050 03 02 page
Bently Nevada 21504 00 48 10 02	Related Bently Nevada machinery-monitoring product	View Bently Nevada 21504 00 48 10 02 page
Bently Nevada 129525 0050 02	Related Bently Nevada machinery-monitoring product	View Bently Nevada 129525 0050 02 page
Bently Nevada 102044 00 32 10 02	Related Bently Nevada machinery-monitoring product	View Bently Nevada 102044 00 32 10 02 page
Bently Nevada 21000 11 05 00 085 03 02	Related Bently Nevada machinery-monitoring product	View Bently Nevada 21000 11 05 00 085 03 02 page

SOURCE IDENTIFIERS

Bently Nevada 991 Thrust Transmitter Datasheet
141618 Rev. R

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