

Bently Nevada 3500/42M 135489-03

Exact product identity

The Bently Nevada 3500/42M is a four-channel Proximitors/Seismic Monitor that accepts proximity, velocity or acceleration signals for shaft and casing vibration, position and combined shaft-absolute measurements.

PRE-WORK CHECK	OFFICIAL BASIS
Exact I/O identity	Internal barriers; internal terminations; four Velomitor channels
Channels	1 to 4 proximity, velocity or acceleration inputs
Power consumption	7.7 W typical
Standard Prox/Accel input impedance	10 kOhm
Transducer supply	-24 Vdc nominal
Buffered-output impedance	550 Ohm
Recorder output	4-20 mA per channel
Recorder load	0 to 600 Ohm

Official evidence boundary

Official evidence: 3500/42M Proximitors/Seismic Monitor Datasheet, 143694 Rev. AC. Technical statements in this document are limited to that manufacturer publication and the exact ordering identity shown.

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01 / INSTALLATION

Confirm the exact I/O module and its transducer population before replacement.

02 / INSTALLATION

Preserve paired-channel assignments when moving or restoring the module.

03 / INSTALLATION

Match proximity, Seismoprobe, Velomitor or accelerometer wiring to the selected input type.

04 / INSTALLATION

Verify transducer sensitivity and supply requirements before energizing.

05 / INSTALLATION

Review gap, bias and buffered outputs before accepting the processed measurement.

06 / INSTALLATION

Keep recorder loads within 0-600 Ohm and verify output scaling.

07 / INSTALLATION

Function-test Alert, Danger and Not-OK paths with controlled signals.

08 / INSTALLATION

Record final channel type, filter, full scale, alarm setpoints and acceptance response.

Hold point

Do not energize until the exact article, matching I/O or termination hardware, field wiring, grounding, transducer type and approved configuration have been independently checked.

03

Configuration and signal verification

APTER POWER / MODEL-SPECIFIC INSTALLATION & COMMISSIONING GUIDE

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CONFIGURATION ITEM	REQUIRED MATCH
Recorder update	100 ms or less
Channel programming	Pairs may use separate or identical configurations
Measurement types	Radial vibration, REBAM, thrust, acceleration, differential expansion, shaft absolute, eccentricity and velocity
Operating temperature	-30 to +65 degrees C
Storage temperature	-40 to +85 degrees C

Shaft-relative vibration

Use proximity inputs for radial shaft vibration and position channels.

Casing seismic vibration

Use the documented seismic transducer type for velocity or acceleration measurements.

Shaft-absolute vibration

Combine compatible shaft-relative and casing signals in the configured channel pair.

Machine-position measurements

Apply thrust, eccentricity or differential-expansion channel types as documented.

Signal-path acceptance

Compare the raw or buffered signal with the processed measurement, recorder output and configured alarm behavior. Resolve polarity, sensitivity, scaling or channel-type differences before proceeding.

04

Commissioning, diagnostics and acceptance

APTER POWER / MODEL-SPECIFIC INSTALLATION & COMMISSIONING GUIDE

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RELEASE ITEM	REQUIRED EVIDENCE
Identity	Exact article and installed position recorded
Interfaces	I/O, termination, sensor and cable identities verified
Configuration	Channel type, sensitivity, range, filters and logic restored
Raw signal	Bias, gap, waveform or buffered output accepted
Processed value	Measured value and scaling compared with controlled input
Alarms	Alert, Danger, Not-OK or relay behavior proved as applicable
Outputs	Recorder or relay circuit checked against the installed load
Release	Final baseline, diagnostics and authorization retained

What sensor population differentiates 3500/42M 135489-03?

135489-03 is the internal-barrier, internal-termination I/O variant populated for four Velomitor channels.

Which input characteristic must agree with the Velomitor setup on 3500/42M 135489-03?

Use the Velomitor input arrangement and documented transducer power rather than a Prox/Accel circuit assumption.

How is casing-velocity polarity verified on 3500/42M 135489-03?

Check the installed sensor orientation and buffered waveform polarity before accepting the processed velocity channel.

Why can 3500/42M 135489-03 not replace the four-channel Prox/Accel variant without review?

The populated transducer interface, supply and internal-barrier path are different even though both carry the same base family number.

Acceptance boundary

This guide organizes official product facts but does not replace the manufacturer datasheet, installed machine drawings, site procedures or authorized proof-test requirements.

Verified catalogue navigation; not approved substitutes

NO.	RELATED APTERPOWER PRODUCT	LINK
01	Bently Nevada 3500-40M-176449-01	Bently Nevada 3500-40M-176449-01
02	Bently Nevada 3500-64M-140734-05	Bently Nevada 3500-64M-140734-05
03	Bently Nevada 126623-01	Bently Nevada 126623-01
04	Bently Nevada 114M5335-01	Bently Nevada 114M5335-01
05	Bently Nevada 9200-06-05-10-00	Bently Nevada 9200-06-05-10-00
06	Bently Nevada 350800-01-180-00	Bently Nevada 350800-01-180-00

Selection notice

Do not infer compatibility from family naming or a shared spare-part number. Confirm the complete monitor, I/O, transducer, approval and termination identity.

Official evidence boundary

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