

Bently Nevada 3500/42M 128240-01

Four-channel Proximito/Seismic monitor component

Overview

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

01 / FUNCTION

Accepts one to four proximity, velocity or acceleration transducer signals.

02 / FUNCTION

Supports radial vibration, thrust, acceleration, velocity and shaft-absolute measurements.

03 / FUNCTION

Programs channels in pairs with separate or identical measurement configurations.

04 / FUNCTION

Provides buffered transducer and 4-20 mA recorder outputs for commissioning and trending.

PUBLIC PRODUCT FIELD	OFFICIAL VALUE
Exact I/O identity	External terminations; Seismoprobe channel type
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

Technical parameter dashboard

Bently Nevada 3500/42M 128240-01

PARAMETER	OFFICIAL VALUE	PARAMETER	OFFICIAL VALUE	PARAMETER	OFFICIAL VALUE
Exact I/O identity	External terminations; Seismoprobe channel type	Buffered-output impedance	550 Ohm	Measurement types	Radial vibration, REBAM, thrust, acceleration, differential expansion, shaft absolute, eccentricity and velocity
Channels	1 to 4 proximity, velocity or acceleration inputs	Recorder output	4-20 mA per channel	Operating temperature	-30 to +65 degrees C
Power consumption	7.7 W typical	Recorder load	0 to 600 Ohm		
Standard Prox/Accel input impedance	10 kOhm	Recorder update	100 ms or less	Storage temperature	-40 to +85 degrees C
Transducer supply	-24 Vdc nominal	Channel programming	Pairs may use separate or identical configurations		

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.

Common applications and Product Precautions

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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.

01 / CHECK

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

02 / CHECK

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

03 / CHECK

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

04 / CHECK

Verify transducer sensitivity and supply requirements before energizing.

05 / CHECK

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

06 / CHECK

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

07 / CHECK

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

08 / CHECK

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

Engineering FAQ

Eight exact-model answers with official evidence

Which transducer type is documented for 3500/42M 128240-01?

128240-01 is the external-termination Seismoprobe I/O variant; the datasheet notes other transducer types are supported but not recommended for this code.

What external hardware must be retained with 3500/42M 128240-01?

Keep the correct external termination block, interconnect cable and Seismoprobe field wiring with the I/O module.

How should seismic velocity scaling be confirmed for 3500/42M 128240-01?

Match the selected channel type and transducer sensitivity to the installed Seismoprobe, then verify a controlled velocity response.

Why is channel-pair documentation important for 3500/42M 128240-01?

The monitor programs channels in pairs even when each channel has a separate measurement configuration.

What recorder-interface check applies to 3500/42M 128240-01?

Confirm 4-20 mA scaling, 0-600 Ohm load and 100 ms or faster update for each active output.

How can a temporary instrument affect tests on 3500/42M 128240-01?

Respect the 550 Ohm buffered-output impedance and avoid loading that changes the observed transducer signal.

Which field checks precede alarm verification on 3500/42M 128240-01?

Verify external block identity, cable continuity, shielding, sensor orientation and buffered output before testing processed alarms.

What acceptance record closes work on 3500/42M 128240-01?

Retain the Seismoprobe identity, external termination path, sensitivity, filter, full scale, recorder scaling and alarm results.

Related products and contact

Catalogue navigation separate from technical evidence

NO.	RELATED APTERPOWER PRODUCT	LINK
01	Bently Nevada 3500-15-04-04-114M5330-01	Bently Nevada 3500-15-04-04-114M5330-01
02	Bently Nevada 3500-33	Bently Nevada 3500-33
03	Bently Nevada 3500-05-01-02-00-00-00	Bently Nevada 3500-05-01-02-00-00-00
04	Bently Nevada 3500-65-145988-02	Bently Nevada 3500-65-145988-02
05	Bently Nevada 3500-15-106M1079-01	Bently Nevada 3500-15-106M1079-01
06	Bently Nevada 3500-40M-140734-01	Bently Nevada 3500-40M-140734-01

Compatibility notice

A related ApterPower page is not an approved substitute. Verify the exact manufacturer ordering code, installed interfaces and configuration before procurement or maintenance release.

APTER POWER CONTACT

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