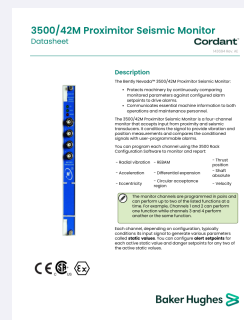


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

Bently Nevada 3500/42M 176449-02

Proximitor Seismic Monitor Module



PRODUCT	3500/42M 176449-02
FAMILY	Bently Nevada 3500/42M monitoring system
FUNCTION	Proximitor Seismic Monitor Module
STATUS	Verify exact configuration

Prepared by Amikon Limited from Bently Nevada 3500/42M Proximitor Seismic Monitor Datasheet 143694 Rev AE. This guide does not replace the complete manufacturer manual, site procedure, hazardous-area drawing, or approval document.

01

CONFIRM THE ORDERED CONFIGURATION

Spare Part Number	176449-02 monitor assembly
Accepted Signals	Proximity, velocity or acceleration
Input Channel Capacity	One to four transducer signals
Typical Power Consumption	7.7 W during operation
Standard Input Impedance	10 k Ω per applicable input
Radial Vibration Sensitivity	3.94 or 7.87 mV/ μ m
Acceleration Sensitivity	10 mV per m/s ²

02

MOUNTING AND CONNECTION

- Process up to four proximity-transducer signals for radial vibration protection with the configured sensitivity, alert levels and danger setpoints.
- Use compatible Proximitor inputs to monitor thrust position, eccentricity or differential expansion while retaining the correct target and scale configuration.
- Confirm standard input impedance: 10 k Ω per applicable input.
- Complete the documented acceptance check: Accept supported velocity or acceleration transducers for casing vibration and integrate the 4–20 mA recorder outputs with the documented plant monitoring system.

Official manufacturer reference reproduced from Bently Nevada 3500/42M Proximitor Seismic Monitor Datasheet 143694 Rev AE. Use the current source document and all referenced drawings and notes for installation.

3500/42M Proximitor Seismic Monitor Datasheet

Cordant™

143694 Rev. AE

Description

The Bently Nevada™ 3500/42M Proximitor Seismic Monitor:

- Protects machinery by continuously comparing monitored parameters against configured alarm setpoints to drive alarms.
- Communicates essential machine information to both operations and maintenance personnel.

The 3500/42M Proximitor Seismic Monitor is a four-channel monitor that accepts input from proximity and seismic transducers. It conditions the signal to provide vibration and position measurements and compares the conditioned signals with user-programmable alarms.

You can program each channel using the 3500 Rack Configuration Software to monitor and report:

- | | | |
|--------------------|------------------------------|-------------------|
| - Radial vibration | - REBAM | - Thrust position |
| - Acceleration | - Differential expansion | - Shaft absolute |
| - Eccentricity | - Circular acceptance region | - Velocity |



The monitor channels are programmed in pairs and can perform up to two of the listed functions at a time. For example, Channels 1 and 2 can perform one function while channels 3 and 4 perform another or the same function.

Each channel, depending on configuration, typically conditions its input signal to generate various parameters called **static values**. You can configure **alert setpoints** for each active static value and danger setpoints for any two of the active static values.



Baker Hughes



04

CABLE ROUTING AND CONNECTION

- Use compatible Proximitors inputs to monitor thrust position, eccentricity or differential expansion while retaining the correct target and scale configuration.
- Restore the documented acceleration sensitivity and verify 10 mV per m/s^2 .
- Support all cables, connectors or mechanical interfaces without strain.
- Inspect shields, earth paths, fasteners and adjacent hardware before service.

05

INITIAL SYSTEM CHECKS

- Confirm exact model identity and compatible system components before energizing.
- Check the saved configuration against the controlled site requirements.
- Accept supported velocity or acceleration transducers for casing vibration and integrate the 4–20 mA recorder outputs with the documented plant monitoring system.
- Record the installed model, baseline values and final status.

06

CONTROLLED DOCUMENTS

Official source	Bently Nevada 3500/42M Proximitors Seismic Monitor Datasheet 143694 Rev AE
Product record	3500/42M 176449-02
Manufacturer	Bently Nevada
Support	INFO@AMIKON.CN