APTER POWER PRODUCT TECHNICAL REFERENCE

200150-06-CN

Trendmaster 2000 / Trendmaster Pro Accelerometer with NPT Stud

This is a 200150 general-purpose accelerometer with a 3/8-24 to 1/4 NPT, 3/4 in hex mounting stud.

It measures vibration of the machine case and converts acceleration along its sensitive axis into a differential voltage for the monitoring channel.

Document field	Value
Manufacturer	Bently Nevada
Prepared by	Apter Power
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1. Product Overview and Identity

This is a 200150 general-purpose accelerometer with a 3/8-24 to 1/4 NPT, 3/4 in hex mounting stud.

It measures vibration of the machine case and converts acceleration along its sensitive axis into a differential voltage for the monitoring channel.

Model Configuration

Field	Verified value
Complete model	200150-06-CN
Manufacturer	Bently Nevada
Product description	Trendmaster 2000 / Trendmaster Pro Accelerometer with NPT Stud

Key Features

- Exact product identifier: 200150-06-CN
- It is compatible with the Trendmaster 2000 or Trendmaster Pro architectures and the listed acceleration-to-velocity interface or 1900 monitor hardware.
- The NPT stud option supports machinery mounting points that use a 1/4 NPT interface for general vibration monitoring.
- Confirm the 1/4 NPT machine-side port and apply the specified installation practice for the threaded connection.

2. Technical Specifications

Technical data for 200150-06-CN is organized below for engineering review and configuration control.

Parameter	Technical value
Measurement range	+/-245 m/s2 (+/-25 g)
Frequency range	10 to 1000 Hz
Stud interface	3/8-24 to 1/4 NPT
Stud hex	3/4 in
Operating temperature	-40 to +105 C

Configuration Control

Confirm the 1/4 NPT machine-side port and apply the specified installation practice for the threaded connection.

3. Functions, Applications and Components

Core Function

200150-06-CN converts machine-case acceleration along its sensitive axis into an electrical signal. The monitoring channel uses this signal to trend casing vibration and machine structural response.

Application Areas

Application	System role
Bearing housings	200150-06-CN measures casing acceleration at a rigid mounting point.
Pumps and motors	The sensor supports routine machine vibration trending.
Fans and compressors	Case response can be monitored across operating conditions.
Condition monitoring	The electrical output is routed to a compatible acceleration channel.

Compatible Components

- Specified mounting stud or adhesive interface
- Compatible accelerometer signal cable
- Acceleration or acceleration-to-velocity monitor input
- Clean, flat machine measurement surface

4. Installation Precautions

- Select a rigid measurement surface for 200150-06-CN.
- Prepare the surface for the supplied mounting option.
- Orient the sensitive axis toward the vibration direction of interest.
- Route and secure the signal cable to avoid connector loading.

Engineering FAQ - Questions 1 to 4

What engineering function does 200150-06-CN perform in its monitoring loop?

200150-06-CN converts machine-case acceleration along its sensitive axis into an electrical signal. The monitoring channel uses this signal to trend casing vibration and machine structural response.

Which measurement range applies to 200150-06-CN?

The configured measurement range for 200150-06-CN is +/-245 m/s2 (+/-25 g).

What frequency range must be checked when specifying 200150-06-CN?

Use 10 to 1000 Hz for the frequency range when reviewing this complete model.

How does the stud interface selection affect 200150-06-CN?

This configuration identifies stud interface as 3/8-24 to 1/4 NPT; include that value in the installation record.

Manufacturer Technical Source

200150, 200155 and 200157 Accelerometers Datasheet 164986