

APTER POWER PRODUCT TECHNICAL REFERENCE

200155-02-CN

Low-Frequency Trendmaster Pro Accelerometer with Plate Stud

This is a 200155 low-frequency Trendmaster Pro accelerometer with a 3/8-24 to 3/8-24 UNF hex-plate stud.

It senses casing acceleration along its sensitive axis and converts the piezoelectric charge into a differential voltage for low-frequency monitoring channels.

Document field	Value
Manufacturer	Bently Nevada
Prepared by	Apter Power
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Three interface paths, one controlled configuration.

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SCAN FOR PRODUCT & QUOTE

200155-02-CN

1. Product Overview and Identity

This is a 200155 low-frequency Trendmaster Pro accelerometer with a 3/8-24 to 3/8-24 UNF hex-plate stud.

It senses casing acceleration along its sensitive axis and converts the piezoelectric charge into a differential voltage for low-frequency monitoring channels.

Model Configuration

Field	Verified value
Complete model	200155-02-CN
Manufacturer	Bently Nevada
Product description	Low-Frequency Trendmaster Pro Accelerometer with Plate Stud

Key Features

- Exact product identifier: 200155-02-CN
- The sensor uses a 5-pin top connector and is installed with the supplied -02 plate-stud configuration into the applicable machine mounting point.
- It supports low-speed and fin-fan machinery monitoring locations that use the low-frequency 200155 measurement characteristic.
- Confirm the machine-side thread accepts the 3/8-24 UNF end of the selected hex-plate stud.

2. Technical Specifications

Technical data for 200155-02-CN is organized below for engineering review and configuration control.

Parameter	Technical value
Measurement range	+/-196 m/s2 (+/-20 g)
Frequency range	1.5 to 10000 Hz
Stud interface	3/8-24 to 3/8-24 UNF
Plate-stud hex	1-3/8 in
Electrical connector	5-pin 1/2-20

Configuration Control

Confirm the machine-side thread accepts the 3/8-24 UNF end of the selected hex-plate stud.

3. Functions, Applications and Components

Core Function

200155-02-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	200155-02-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 200155-02-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 200155-02-CN perform in its monitoring loop?

200155-02-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 200155-02-CN?

The configured measurement range for 200155-02-CN is +/-196 m/s² (+/-20 g).

What frequency range must be checked when specifying 200155-02-CN?

Use 1.5 to 10000 Hz for the frequency range when reviewing this complete model.

How does the stud interface selection affect 200155-02-CN?

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

Manufacturer Technical Source

200150, 200155 and 200157 Accelerometers Datasheet 164986