200150-09-CN

General-Purpose Accelerometer

Bently Nevada 200150-09-CN is a general-purpose accelerometer for Trendmaster monitoring systems. It converts machine-case acceleration into the signal used for vibration trending and condition assessment.

Manufacturer	Bently Nevada
Product family	Trendmaster 2000 and Trendmaster Pro
Part number	200150-09-CN
Country of origin	USA
Source	200150, 200155 and 200157 Accelerometers Datasheet — 164986 Rev. Y

Product role

1 Converts casing acceleration into an IEPE-compatible electrical signal

2 Supports general-purpose Trendmaster vibration measurements

3 Uses a ceramic-shear sensing element in a stainless-steel case

4 Accepts the configured threaded mounting adaptor

Document purpose

Technical review	Model identity and manufacturer-published values
Installation review	Mounting, connection and companion-hardware checks
Commissioning review	Controlled signal, diagnostic and functional response

1. Technical specifications

The following values are transcribed only from the manufacturer records named in this document.

Sensitivity	10.2 mV/(m/s2) (100 mV/g), +/-12%
Acceleration range	+/-245 m/s2 (+/-25 g)
Resonant frequency	>20 kHz
Amplitude linearity	+/-2%
Transverse sensitivity	7% maximum
Settling time	300 ms maximum
Mounting thread	3/8-24 female
Mounting torque	2.7 to 6.8 N m
Sensing design	Ceramic shear
Case material	316L stainless steel
Connector	5-pin, 1/2-20
Mounting adaptor option	3/8-24 to 3/4 NPT, 1-1/4 in hex

Configuration identity checks

Complete model	200150-09-CN
Manufacturer part	200150-09-CN
Installed family	Trendmaster 2000 and Trendmaster Pro
Record authority	164986 Rev. Y

2. System function and integration

Bently Nevada 200150-09-CN is a general-purpose accelerometer for Trendmaster monitoring systems. It converts machine-case acceleration into the signal used for vibration trending and condition assessment.

Compatible installation elements

Component 1	Trendmaster 2000 or Trendmaster Pro channel
Component 2	compatible accelerometer interface cable
Component 3	threaded machine mounting point
Component 4	approved signal-conditioning input

Engineered application matrix

Machine-case vibration trending	Converts casing acceleration into an IEPE-compatible electrical signal
Motor bearing-housing monitoring	Supports general-purpose Trendmaster vibration measurements
Pump condition monitoring	Uses a ceramic-shear sensing element in a stainless-steel case
Fan and gearbox acceleration measurement	Accepts the configured threaded mounting adaptor

Related products on Apter Power

200150-06-CN	General-purpose accelerometer	Open product page
200155-00-CN	Low-frequency accelerometer	Open product page
200151-40-03-00	Accelerometer interface cable	Open product page
16710-50	Armored accelerometer cable	Open product page

3. Installation and commissioning controls

Mount 200150-09-CN on a clean, rigid surface using the configured adaptor and published torque, then verify connector seating, bias condition and signal polarity before collecting baseline vibration data.

1 Confirm the full 200150-09-CN marking and mounting adaptor before installation.

2 Isolate the connected monitoring input before cable work.

3 Prepare a flat, clean mounting surface and avoid paint or debris beneath the adaptor.

4 Apply the published mounting torque without twisting the sensor cable.

5 Protect the five-pin connector from moisture and conductive contamination.

6 Route the interface cable away from high-current conductors and sharp bends.

7 Verify settled bias and a stable noise floor before accepting measurements.

8 Record the new vibration baseline after installation.

Acceptance record

Identity	200150-09-CN recorded
Mounting / connection	Trendmaster 2000 or Trendmaster Pro channel
Companion hardware	compatible accelerometer interface cable
Functional duty	Machine-case vibration trending
As-left evidence	Connections, diagnostics and controlled response recorded

Return-to-service sequence

1	Confirm physical security and connector condition
2	Restore the documented channel or system configuration
3	Observe stable diagnostics before applying a controlled test
4	Record the final process response and release authorization

4. Engineer FAQ and source record

What must be matched before replacing 200150-09-CN?	Match the complete 200150-09-CN marking, general-purpose accelerometer, installed mounting or connector execution and the approved equipment record before removal.
Which system components should be checked with 200150-09-CN?	Confirm the installed Trendmaster 2000 or Trendmaster Pro channel, compatible accelerometer interface cable and the assigned monitoring or connection point are the documented combination for 200150-09-CN.
How should wiring or cabling for 200150-09-CN be recorded?	Record conductor identity, shield termination, connector orientation, cable route and the as-found diagnostic state before disconnecting 200150-09-CN.
What installation control is important for 200150-09-CN?	Use the model-specific mounting arrangement, protect mating surfaces and maintain the documented cable support and mechanical clearance for 200150-09-CN.
How is 200150-09-CN checked during commissioning?	Apply the approved controlled test for machine-case vibration trending, verify polarity or direction where applicable, and compare the measured response with the configured channel.
Can parameters from a similar model be used for 200150-09-CN?	No. Retain only values and configuration details that apply directly to the complete 200150-09-CN ordering code and installed system.
What maintenance evidence should be retained for 200150-09-CN?	Retain the full 200150-09-CN identity, as-left mounting and connections, continuity or bias checks, diagnostics and the final functional-test result.
What should be verified before returning 200150-09-CN to service?	Confirm secure mounting, connector integrity, restored configuration, stable signal behavior and the intended response of the associated monitoring channel.

Manufacturer source identifiers

Document title	200150, 200155 and 200157 Accelerometers Datasheet
Publication / revision	164986 Rev. Y
Manufacturer	Bently Nevada / Baker Hughes