

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.

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200150-09-CN

Manufacturer	Bently Nevada
Product name	General-Purpose Accelerometer
Product family	Trendmaster 2000 and Trendmaster Pro
Part number	200150-09-CN
Country of origin	USA

Core system roles

- 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

Engineering note

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. Technical data

Official manufacturer values for the complete product record are arranged below for engineering review.

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 verification

Complete model	200150-09-CN
Official product family	Trendmaster 2000 and Trendmaster Pro
Primary source	200150, 200155 and 200157 Accelerometers Datasheet — 164986 Rev. Y
Installation record	Physical marking and installed interfaces retained

Parameter authority	Only values directly assigned to the complete model are used
Identity authority	Physical marking and manufacturer ordering code
Change control	Installed arrangement retained before replacement
Acceptance authority	Approved site test and final diagnostic record

2. Functions, components and applications

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

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 Apter Power product pages

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

Integration statement

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.

3. Precautions and return-to-service evidence

- 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.

Commissioning evidence matrix

Identity	Full 200150-09-CN marking confirmed
Installed component	Trendmaster 2000 or Trendmaster Pro channel
Paired hardware	compatible accelerometer interface cable
Primary duty	Machine-case vibration trending
Functional test	Converts casing acceleration into an IEPE-compatible electrical signal
Release record	Diagnostics and as-left response retained

Machine-case vibration trending	Verify the converts casing acceleration into an iepe-compatible electrical signal response under controlled conditions
Motor bearing-housing monitoring	Verify the supports general-purpose trendmaster vibration measurements response under controlled conditions
Pump condition monitoring	Verify the uses a ceramic-shear sensing element in a stainless-steel case response under controlled conditions
Fan and gearbox acceleration measurement	Verify the accepts the configured threaded mounting adaptor response under controlled conditions

4. Engineer FAQ and controlled 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.

Source identifiers

Manufacturer	Bently Nevada / Baker Hughes
Official document	200150, 200155 and 200157 Accelerometers Datasheet
Publication / revision	164986 Rev. Y
Applied product	200150-09-CN