

200355-00-00-00

Low-frequency 100 mV/g accelerometer

Bently Nevada 200355-00-00-00 is a hermetically sealed, case-mounted 200355 piezoelectric accelerometer for Trendmaster Pro direct-input applications. It uses a top-mounted two-pin MIL-C-5015 connection and the order code specifies the standard mounting stud, sensitivity tolerance and no approvals.

| IDENTITY          | VERIFIED VALUE                       |
|-------------------|--------------------------------------|
| Manufacturer      | Bently Nevada                        |
| Complete model    | 200355-00-00-00                      |
| Product role      | Low-frequency 100 mV/g accelerometer |
| System family     | Trendmaster Pro                      |
| Country of origin | USA                                  |

DOCUMENT SCOPE

Exact identity, manufacturer-supported technical data, installation checks, applications, precautions and controlled verification records.

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200355-00-00-00

# Technical Specifications

| PARAMETER                   | VERIFIED VALUE                             |
|-----------------------------|--------------------------------------------|
| Sensor type                 | Low-frequency 100 mV/g accelerometer       |
| Sensitivity                 | 100 mV/g $\pm 5\%$                         |
| Mounting stud               | 1/4-28 stainless-steel stud with brass tip |
| Approvals                   | None                                       |
| Measurement range           | $\pm 50$ g                                 |
| Output bias voltage         | 8-12 V DC                                  |
| Excitation voltage          | 18-28 V DC                                 |
| Constant-current excitation | 2-20 mA                                    |
| Amplitude linearity         | $\pm 1\%$                                  |
| Connector                   | Two-pin MIL-C-5015                         |

## Model-Specific Engineering Note

### ENGINEERING BOUNDARY

Mount 200355-00-00-00 on a prepared machine surface with the documented 1/4-28 stud and torque. Use it where the documented low-frequency response is required. Record orientation, cable route and bias voltage, then prove response at the receiving constant-current input.

## Pre-Installation Checks

| NO. | REQUIRED CHECK                                                            |
|-----|---------------------------------------------------------------------------|
| 1   | Verify the complete 200355-00-00-00 marking before work.                  |
| 2   | Record the measurement point, sensitive-axis orientation and cable route. |
| 3   | Prepare a flat, clean mounting surface and use the specified stud.        |
| 4   | Apply the published mounting torque without twisting the sensor cable.    |
| 5   | Use the required constant-current excitation and verify bias voltage.     |

# System Role and Architecture

Bently Nevada 200355-00-00-00 is a hermetically sealed, case-mounted 200355 piezoelectric accelerometer for Trendmaster Pro direct-input applications. It uses a top-mounted two-pin MIL-C-5015 connection and the order code specifies the standard mounting stud, sensitivity tolerance and no approvals.

**FUNCTION 1**  
Low-frequency 100 mV/g accelerometer

**FUNCTION 2**  
100 mV/g ±5%

**FUNCTION 3**  
Welded hermetic stainless-steel sensing package

**FUNCTION 4**  
Direct connection to supported Trendmaster Pro input cards

## Common Applications

| APPLICATION                   | ENGINEERING CONTEXT                                                                |
|-------------------------------|------------------------------------------------------------------------------------|
| Machine-casing acceleration   | Measures vibration transmitted to a bearing housing or casing.                     |
| Trendmaster Pro direct input  | Connects to the supported constant-current or seismic direct input card.           |
| Bearing-condition trending    | Supplies a proportional acceleration signal for documented trend and alarm duties. |
| Controlled sensor replacement | Restores the exact mounting and sensitivity option at an existing point.           |

**CONTROLLED ACCEPTANCE DUTY**  
Confirm identity, physical interface, companion hardware, configured values and functional response against the installed-system record before release.

# Engineering Precautions

| NO. | PRECAUTION                                                                |
|-----|---------------------------------------------------------------------------|
| 1   | Verify the complete 200355-00-00-00 marking before work.                  |
| 2   | Record the measurement point, sensitive-axis orientation and cable route. |
| 3   | Prepare a flat, clean mounting surface and use the specified stud.        |
| 4   | Apply the published mounting torque without twisting the sensor cable.    |
| 5   | Use the required constant-current excitation and verify bias voltage.     |
| 6   | Keep the two-pin connector clean, dry and fully identified.               |
| 7   | Use it where the documented low-frequency response is required.           |
| 8   | Prove channel polarity, noise floor and measured response before release. |

## Model-Specific FAQ — Part 1

| QUESTION                                                   | ANSWER                                      |
|------------------------------------------------------------|---------------------------------------------|
| What sensitivity option is ordered for 200355-00-00-00?    | 100 mV/g ±5%.                               |
| Which mounting stud is supplied with 200355-00-00-00?      | 1/4-28 stainless-steel stud with brass tip. |
| What excitation voltage is required by 200355-00-00-00?    | The published range is 18-28 V DC.          |
| What bias voltage should be observed from 200355-00-00-00? | The documented output bias is 8-12 V DC.    |

# Model-Specific FAQ — Part 2

| QUESTION                                                  | ANSWER                                                                                                                      |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Which connector is fitted to 200355-00-00-00?             | It uses a top-mounted two-pin MIL-C-5015 connector.                                                                         |
| What measurement range is documented for 200355-00-00-00? | The published range is ±50 g.                                                                                               |
| Which Trendmaster Pro interface accepts 200355-00-00-00?  | Use the supported Constant Current Direct Input Card or Seismic Direct Input Card identified in the manufacturer datasheet. |
| What proves the installation of 200355-00-00-00?          | Record mounting torque, bias voltage, polarity, noise and a controlled response test.                                       |

## Related Products on Apter Power

| MODEL                         | APTER POWER PAGE                  |
|-------------------------------|-----------------------------------|
| Bently Nevada 16925-33        | <a href="#">Open product page</a> |
| Bently Nevada 16925-99        | <a href="#">Open product page</a> |
| Bently Nevada 16m1081-01      | <a href="#">Open product page</a> |
| Bently Nevada 1701-05         | <a href="#">Open product page</a> |
| Bently Nevada 1701-15         | <a href="#">Open product page</a> |
| Bently Nevada 170180-01-05    | <a href="#">Open product page</a> |
| Bently Nevada 170180-02-00    | <a href="#">Open product page</a> |
| Bently Nevada 177230-00-01-05 | <a href="#">Open product page</a> |

### MANUFACTURER SOURCE RECORD

200350 and 200355 Accelerometers Datasheet  
Baker Hughes publication 164804 Rev. T

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