

## 177230-02-01-05

### Seismic Transmitter

INSTALLATION | CONNECTION | COMMISSIONING | ACCEPTANCE

## CONTROLLED WORK SEQUENCE

1

VERIFY

2

ISOLATE

3

CONNECT

4

TEST

Verify 177230-02-01-05, 0–50.8 mm/s loop scaling, 10 Hz–1 kHz RMS configuration, mounting adapter, cable pinout and approvals before commissioning.

### CONTROLLED PREREQUISITES

#### Exact identity

Verify 177230-02-01-05 against the nameplate and controlled record.

#### Approved system

Confirm the documented 177230 loop-powered seismic transmitter system position and interfaces.

#### Evidence

Use 177232 Rev. T for the published technical and installation boundary.

## RELATED PRODUCTS ON APTER POWER

|    |                                     |      |
|----|-------------------------------------|------|
| 01 | Bently Nevada 170180-02-00          | OPEN |
| 02 | Bently Nevada 89410-01              | OPEN |
| 03 | Bently Nevada 330104-04-09-50-02-02 | OPEN |
| 04 | Bently Nevada 330104-01-05-50-02-02 | OPEN |

### APTER POWER SALES TEAM

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177230-02-01-05

Exact-model technical record

|                         |                                         |                        |                                     |
|-------------------------|-----------------------------------------|------------------------|-------------------------------------|
| Complete model          | 177230-02-01-05                         | Acceleration bandwidth | 2.5 Hz to 10 kHz                    |
| Manufacturer            | Bently Nevada                           | Acceleration limit     | 147 m/s2 (15 g) peak                |
| Product family          | 177230 loop-powered seismic transmitter | Operating temperature  | -40 to +85 degC                     |
| Velocity range          | 0 to 50.8 mm/s (0 to 2 in/s)            | Housing                | Hermetic 316L stainless steel       |
| Measurement band        | 10 Hz to 1 kHz RMS                      | Connector              | 3-pin MIL-C-5015                    |
| Approval option         | Multiple approvals                      | Mounting               | 1/4-28 UNF with documented adapters |
| Process output          | 4 to 20 mA, loop powered                | Mounting torque        | 4 to 7 N m                          |
| Raw acceleration output | 10.2 mV/m/s2 (100 mV/g), +/-20%         |                        |                                     |

OFFICIAL SOURCE COVERAGE

|          |                                                                                      |
|----------|--------------------------------------------------------------------------------------|
| Source 1 | 177230 Seismic Transmitter Datasheet — Ordering Information, 177232 Rev. T           |
| Source 2 | 177230 Seismic Transmitter Datasheet — Specifications, 177232 Rev. T                 |
| Source 3 | 177230 Seismic Transmitter Datasheet — Description and ordering notes, 177232 Rev. T |

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177230-02-01-05

## Installation and connection sequence

**STEP 1**

Confirm the exact 177230-02-01-05 range and approval suffix.

**STEP 2**

Place the connected PLC or DCS input in maintenance state.

**STEP 3**

Prepare a clean, flat mounting surface at the approved measurement point.

**STEP 4**

Use the documented 1/4-28 stud or verified adapter and 4–7 N m torque.

**STEP 5**

Protect and correctly key the 3-pin connector.

**STEP 6**

Verify loop polarity and analog-input scaling before power-up.

### RELATED PRODUCTS ON APTER POWER

|    |                                     |      |
|----|-------------------------------------|------|
| 01 | Bently Nevada 170180-02-00          | OPEN |
| 02 | Bently Nevada 89410-01              | OPEN |
| 03 | Bently Nevada 330104-04-09-50-02-02 | OPEN |
| 04 | Bently Nevada 330104-01-05-50-02-02 | OPEN |

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# Commissioning and acceptance

## CHECK 1

Check the raw acceleration output only with suitable test equipment.

## CHECK 2

Prove 4–20 mA zero/span, vibration direction and alarm response.

## CHECK 3

Verify 177230-02-01-05, 0–50.8 mm/s loop scaling, 10 Hz–1 kHz RMS configuration, mounting adapter, cable pinout and approvals before commissioning.

## CHECK 4

Retain the final 177230-02-01-05 identity, wiring, diagnostic and acceptance record.

## RELATED PRODUCTS ON APTER POWER

|    |                                       |      |
|----|---------------------------------------|------|
| 01 | Bently Nevada 130938-01-10-01         | OPEN |
| 02 | Bently Nevada 330901-10-40-10-02-00   | OPEN |
| 03 | Bently Nevada 330703-000-050-10-11-00 | OPEN |
| 04 | Bently Nevada 330101-00-65-10-02-05   | OPEN |
| 05 | Bently Nevada 330704-00-030-50-02-00  | OPEN |
| 06 | Bently Nevada 330881-16-04-132-03-02  | OPEN |

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## Acceptance reference and related products

|                  |                                                              |
|------------------|--------------------------------------------------------------|
| Identity         | Complete model 177230-02-01-05 verified                      |
| Installed system | 177230 loop-powered seismic transmitter                      |
| Connections      | Power, polarity, shielding, address or slot record completed |
| Controlled test  | Diagnostics and intended process response accepted           |

### RELATED PRODUCTS ON APTER POWER

|    |                                      |      |
|----|--------------------------------------|------|
| 01 | Bently Nevada 330881-16-04-138-03-02 | OPEN |
| 02 | Bently Nevada 330901-00-08-10-02-CN  | OPEN |
| 03 | Bently Nevada 330101-48-71-20-02-CN  | OPEN |
| 04 | Bently Nevada 330101-00-96-20-02-CN  | OPEN |
| 05 | Bently Nevada 330101-00-77-20-02-CN  | OPEN |
| 06 | Bently Nevada 330102-60-90-10-02-CN  | OPEN |
| 07 | Bently Nevada 330190-040-01-05       | OPEN |
| 08 | Bently Nevada 330903-00-02-10-02-00  | OPEN |

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