

# 177230 Seismic Transmitter

## Datasheet

Bently Nevada Machinery Condition Monitoring

177232 Rev. T



### Description

The 177230 Seismic Transmitter is a simple, loop-powered device that can be quickly and easily installed. It can be integrated into your programmable logic controller (PLC) or controls system linked to a plant asset condition monitoring solution. Its simple design reduces training, maintenance, and service costs. The transducer helps you better manage downtime, optimize maintenance planning, and avoid unforeseen catastrophic failures of machinery assets.

The 177230 Seismic Transmitter incorporates robust CM design for reliability and implements an industry-standard 4 to 20 mA loop-powered transmitter.

### Easily Installed and Integrated

- Interfaces with PLCs and control systems (including DCS and SCADA).
- Requires only a short learning curve for operations and maintenance, through a familiar interface similar to that for connecting other PLC or control system inputs.
- Requires no field configuration or adjustments.
- Needs few additional parts for a complete system.
- Includes technical support for customers on how to monitor their equipment.
- Includes self-test.
- Incorporates protected interface.
- Supports a variety of interface cables.

### Data Quality

- Provides accurate and repeatable data.
- Uses simple data format.
- Provides raw vibration signal for verification and analysis.



## Ordering Information



For the detailed listing of country and product-specific approvals, refer to the [Approvals Quick Reference Guide \(108M1756\)](#).

For additional technical documentation, please log in to [bntechsupport.com](http://bntechsupport.com) and access the Bently Nevada Media Library.

## Seismic Transmitter

### 177230-AA-BB-CC

#### A: Measurement Range

<b>00</b>	0 – 12.7 mm/s (0 – 0.5 in/s)
<b>01</b>	0 – 25.4 mm/s (0 – 1.0 in/s)
<b>02</b>	0 – 50.8 mm/s (0 – 2.0 in/s)

#### B: Frequency

<b>01</b>	10 Hz to 1 kHz (600 to 60 kcps) RMS (Root Mean Square)
<b>02</b>	3 Hz to 1 kHz (180 to 60 kcps) peak

#### C: Approvals

<b>05</b>	Multiple Approvals (CSA/NRTL/C, ATEX/IECEX)
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Only standard or common AA-BB-CC configurations are available.

## Interconnect Cable without Armor

### 16925-AA

#### A: Length in feet

Order in increments of 1 foot (0.3 m)

Minimum length: 3 feet (0.91 m)  
Maximum length: 99 feet (30.2 m)  
Example: **25** = 25 feet

These standard lengths are available. You can order custom lengths at additional cost.

Feet	Meters (approx.)
<b>10</b>	3.1
<b>12</b>	3.6
<b>15</b>	4.5
<b>17</b>	5.0
<b>20</b>	6.0
<b>25</b>	7.6
<b>30</b>	9.0
<b>99</b>	30.0

## Interconnect Cable with Armor

### 16710-AA

#### A: Length in feet

Order in increments of 1 foot (0.3 m)

Minimum length: 3 feet (0.91 m)  
Maximum length: 99 feet (30.2 m)  
Example: **25** = 25 feet

These standard lengths are available. You can order custom lengths at additional cost.

Feet	Meters (approx.)
<b>08</b>	2.4
<b>10</b>	3.1
<b>12</b>	3.6
<b>15</b>	4.5
<b>17</b>	5.0
<b>20</b>	6.0
<b>30</b>	9.0
<b>99</b>	30.0

## Ordering Accessories

You can order these accessories from the vendors named. Contact the vendor with the part number and ask for their part that fits your application.

### 3-Pin Connector (MIL-C-5015)

Base	Cannon (ITT industries) <a href="http://ittcannon.com">ittcannon.com</a> P/N: CA3106R-10SL-3S F97 or P/N: MS3106R-10SL-3S
Shell	Sunbank Co. <a href="http://sunbankcorp.com">sunbankcorp.com</a>  Glennair, Inc. <a href="http://glennair.com">glennair.com</a>
Wire (3-wire with shield)	Three-conductor 18 to 22 AWG cables with a 0.01" minimum outer jacket and inner wire insulation, and 80% minimum coverage shield. Insulation rating should be 600 V minimum.
Mil-W-16878/4 (Type E)	Sonic/Thermax <a href="http://thermaxcdt.com">thermaxcdt.com</a>  18 AWG - P/N: 18-TE-1930 (3) SXE 22 AWG - P/N: 22-TE-1934 (3) SXE
	Standard Wire and Cable Co. <a href="http://std-wire.com">std-wire.com</a>  18 AWG - P/N: 1100-88T 22 AWG - P/N: 1100-66T
	Belden <a href="http://belden.com">belden.com</a>  18 AWG - P/N: 83336 22 AWG -P/N: 83334

## Studs and Adapters

Part No.	Description
89139-01	M-M ¼-28 UNF to ⅜-24 UNF standard stud
128038-01	M-M ¼-28 UNF to ⅜-24 hex plate stud (1-⅜" X 0.25")
146396-01	F-M ¼-18 NPT to ¼-28 adapter
146394-01	F-M ¼-28 UNF to ¼-18 NPT adapter
37439-01	F-M ¼-28 UNF to ¼-28 UNF mounting base
164373	M-M ¼-28 UNF to ¼-28 UNF standard stud with brass tip
135826-01	M-M ¼-28 UNF to M10 X 1.0 standard stud