

APTER POWER

177230-02-01-05

Seismic Transmitter

It is a 4–20 mA seismic transmitter scaled for 0–50.8 mm/s with a 10 Hz–1 kHz RMS band and multiple approvals.

COMPLETE PRODUCT SNAPSHOT

MANUFACTURER	Bently Nevada
FAMILY	177230 loop-powered seismic transmitter
MODEL	177230-02-01-05
DOCUMENT	177232 Rev. T

RELATED PRODUCTS ON APTER POWER

01	Bently Nevada 330101-00-31-20-02-00	OPEN
02	Bently Nevada 330703-000-060-050-12-00	OPEN
03	Bently Nevada 21504-16-32-10-02	OPEN
04	Bently Nevada 31000-27-05-15-040-03-02	OPEN
05	Bently Nevada 330908-00-20-70-02-05	OPEN
06	Bently Nevada 330908-00-15-70-02-05	OPEN

APTER POWER SALES TEAM

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WEBSITE www.apterpower.com



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Exact-model technical record

Complete model	177230-02-01-05
Manufacturer	Bently Nevada
Product family	177230 loop-powered seismic transmitter
Velocity range	0 to 50.8 mm/s (0 to 2 in/s)
Measurement band	10 Hz to 1 kHz RMS
Approval option	Multiple approvals
Process output	4 to 20 mA, loop powered
Raw acceleration output	10.2 mV/m/s2 (100 mV/g), +/-20%

Acceleration bandwidth	2.5 Hz to 10 kHz
Acceleration limit	147 m/s2 (15 g) peak
Operating temperature	-40 to +85 degC
Housing	Hermetic 316L stainless steel
Connector	3-pin MIL-C-5015
Mounting	1/4-28 UNF with documented adapters
Mounting torque	4 to 7 N m

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System role and applications

Overall velocity monitoring

Publishes machine vibration velocity directly to a PLC or DCS loop.

Motor and pump monitoring

Supports permanent housing-vibration measurement on rotating assets.

Raw acceleration diagnostics

Provides the auxiliary acceleration signal for controlled diagnostic review.

Seismic transmitter renewal

Preserves range, RMS band and approval identity during replacement.

ENGINEERING BOUNDARY

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.

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Model-specific engineering questions

Q1. What velocity range is configured in Bently Nevada 177230-02-01-05?

Code 02 specifies a 0 to 50.8 mm/s (0 to 2 in/s) full-scale velocity output.

Q2. Which measurement band is used by Bently Nevada 177230-02-01-05?

Code 01 specifies 10 Hz to 1 kHz RMS processing.

Q3. What approval option belongs to Bently Nevada 177230-02-01-05?

The final 05 suffix specifies multiple approvals; the installed certification record must match the site.

Q4. What process signal is produced by Bently Nevada 177230-02-01-05?

It is a loop-powered 4–20 mA transmitter for overall seismic velocity.

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Acceptance reference and related products

Q5. Which diagnostic signal is available from Bently Nevada 177230-02-01-05?

A raw acceleration output is provided at 10.2 mV/m/s2 (100 mV/g), with the specified 2.5 Hz to 10 kHz bandwidth.

Q6. What connector is fitted to Bently Nevada 177230-02-01-05?

The transmitter uses a 3-pin MIL-C-5015 connector and the mating cable must follow the specified pin assignment.

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01	Bently Nevada 330101-00-31-20-02-00	OPEN
02	Bently Nevada 330703-000-060-050-12-00	OPEN
03	Bently Nevada 21504-16-32-10-02	OPEN
04	Bently Nevada 31000-27-05-15-040-03-02	OPEN
05	Bently Nevada 330908-00-20-70-02-05	OPEN
06	Bently Nevada 330908-00-15-70-02-05	OPEN
07	Bently Nevada 330904-00-25-05-02-CN	OPEN

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11	Bently Nevada 330903-00-06-05-02-CN	OPEN
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