Bently Nevada 1701/25

Installation & Commissioning Guide

Bently Nevada 1701/25 is a two-channel FieldMonitor seismic input monitor for velocity or acceleration transducers.

PRODUCT ROLE AND TECHNICAL FEATURES

Feature 1

Accepts two seismic transducer inputs.

Feature 2

Supports velocity or acceleration measurement configurations.

Feature 3

Provides filtering and integration for selected measured variables.

Feature 4

Generates alarm status and reports values to the host control system.

TECHNICAL DATA SNAPSHOT

System family	1701 FieldMonitor
Input channels	2
Supported transducers	Velocity or acceleration transducers
Measurement modes	Direct, RMS, filtered and integrated values

SYSTEM RELATIONSHIP

Field device → **Product interface** → **System channel** → **Verified response**

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Pre-installation readiness

READINESS GATE

Identity

Compare the complete marking with the approved work order and installed record.

System match

Confirm the receiving channel, mating components and controlled configuration.

Physical condition

Inspect mounting surfaces, connectors, terminals, cable and support hardware.

Work controls

Apply authorized isolation, bypass, access and restoration procedures.

TECHNICAL PROFILE FOR THE WORK

System family

1701 FieldMonitor

Input channels

2

Supported transducers

Velocity or acceleration transducers

Measurement modes

Direct, RMS, filtered and integrated values

Alarm processing

User-programmable setpoints

System communication

Measured values and status to the host control system

Self-diagnostics

Monitor and connected-transducer integrity checks

Configuration rule

Do not mix velocity and acceleration transducers in one monitor

IMPORTANT NOTICE

Resolve every unmatched interface, configuration or receiving-system condition before removal or installation.

DOCUMENT AND WORK CONTROLS

Manufacturer document	ApterPower product-specific technical reference
Application scope	The values below apply to the identified product and its documented system relationship.
Selection rule	Use the complete ordering string and confirm the installed interfaces before selection.

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Installation sequence

CONTROLLED WORK STEPS

01	Confirm the complete 1701/25 marking and the documented fieldmonitor seismic input monitor position.
02	Place the affected machine protection channel in the approved maintenance state.
03	Record the installed system family, input channels and supported transducers before removal.
04	De-energize the associated monitor, sensor supply or field circuit as the procedure requires.
05	Label every connector, conductor and shield before separation.
06	Inspect mating contacts, mounting hardware and cable condition before installation.
07	Restore the retained configuration and verify signal polarity and proportional response.
08	Function-test the complete alarm, indication and shutdown path before returning the machine to service.

CONNECTION RECORD

As found	Photograph and label every connection and installed orientation before removal.
Mechanical	Record mounting position, support, clearance and connector engagement.
Electrical	Record polarity, common, shield, channel assignment and cable route.
Configuration	Preserve approved settings, scaling, alarm logic and acceptance limits.
As left	Record the final physical condition and any controlled deviation.

Field device → **Product interface** → **System channel** → **Verified response**

WORK HOLD POINTS

Before removal	Identity, position, wiring, orientation and controlled settings recorded.
Before connection	Mating interfaces, condition and routing reviewed.
Before power-up	Mechanical work, wiring, shielding and configuration independently checked.
Before release	Static value, dynamic response and protection behavior accepted.

Commissioning and functional proof

COMMISSIONING SEQUENCE

Initial state

Observe status at power-up and check for unexpected fault or alarm indication.

Static value

Verify the expected bias, gap, loop, contact or channel value for the application.

Dynamic response

Apply the approved machine or test stimulus and confirm response and scaling.

Protection path

Verify the configured alarm, relay, data or receiving-system behavior.

APPLICATION-SPECIFIC CHECKS

Bearing-housing velocity

Monitors casing vibration from velocity sensors.

Acceleration monitoring

Processes accelerometer signals for protection.

Distributed machine protection

Places monitoring close to package equipment.

Control-system trending

Supplies measured parameters and status to the host.

ACCEPTANCE RECORD

Identity	Complete marking and final installed position recorded.
Physical inspection	Mounting, connectors, terminals and routing checked.
Channel status	Expected status and configured measurement confirmed.
Functional test	Required output or protection response demonstrated.
Restoration	Bypasses removed and operating state approved.

COMMISSIONING QUESTIONS

What system family belongs to Bently Nevada 1701/25?	The documented system family is 1701 FieldMonitor; confirm it against the installed record.
Why verify input channels for Bently Nevada 1701/25?	The documented input channels is 2; confirm it against the installed record.

Release record and technical references

CLOSEOUT QUESTIONS

Where is supported transducers used by Bently Nevada 1701/25?	The documented supported transducers is Velocity or acceleration transducers; confirm it against the installed record.
What controls measurement modes on Bently Nevada 1701/25?	The documented measurement modes is Direct, RMS, filtered and integrated values; confirm it against the installed record.
How is alarm processing tested on Bently Nevada 1701/25?	The documented alarm processing is User-programmable setpoints; confirm it against the installed record.
Which record preserves system communication for Bently Nevada 1701/25?	The documented system communication is Measured values and status to the host control system; confirm it against the installed record.
Which self-diagnostics applies to Bently Nevada 1701/25?	The documented self-diagnostics is Monitor and connected-transducer integrity checks; confirm it against the installed record.
How is configuration rule set on Bently Nevada 1701/25?	The documented configuration rule is Do not mix velocity and acceleration transducers in one monitor; confirm it against the installed record.

RELATED MODELS FOR INSTALLATION PLANNING

Bently Nevada 330180-X2-05	Installation-planning reference. Review the complete ordering string before selection.
Bently Nevada 330850-51-00	Installation-planning reference. Compare the required interface and system position.
Bently Nevada 3500/32 125712-01	Installation-planning reference. Confirm the execution independently for the intended task.

MANUFACTURER DOCUMENT AND FINAL CONTROL

Manufacturer document	ApterPower product-specific technical reference
Application scope	The values below apply to the identified product and its documented system relationship.
Selection rule	Use the complete ordering string and confirm the installed interfaces before selection.

IMPORTANT NOTICE	Release the equipment only after the responsible site authority accepts the recorded result.

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