Bently Nevada 1701/25

Technical Reference

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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Technical profile

Technical values for the complete product string are arranged below for selection and engineering review.

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

SELECTION ANCHORS

- Accepts two seismic transducer inputs.
- Supports velocity or acceleration measurement configurations.
- Provides filtering and integration for selected measured variables.
- Generates alarm status and reports values to the host control system.

IMPORTANT NOTICE	Use the values as one matched configuration. Do not substitute a nearby ordering code without a separate check.

MANUFACTURER DOCUMENT REFERENCE

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.

ADDITIONAL ENGINEERING CHECKS

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.

System role and architecture

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

APPLICATION POINTS

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.

INTEGRATION RECORD

Identity	Record the complete marking and installed position.
Mechanical interface	Confirm mounting, support, clearance and connector engagement.
Electrical interface	Confirm signal path, shield, common and receiving-channel assignment.
Configuration	Retain the controlled channel settings and acceptance criteria.
Functional result	Record the expected static value, dynamic response and system status.

Use 1701/25 only in the documented monitoring chain and verify the complete signal path after controlled replacement.

ENGINEERING REVIEW 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.
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.

Engineering checks and acceptance

PRODUCT PRECAUTIONS

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.

RELEASE CHECKS

Exact identity	Product marking and intended system position agree.
Interface condition	Mounting, connectors, terminals and cable routing are secure.
Signal response	The expected static and dynamic behavior has been observed.
Protection state	Channel status, alarms and controlled bypass state are restored.

IMPORTANT NOTICE	Confirm the complete 1701/25 identity and every mating interface before installation.

APPLICATION BOUNDARIES

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.

Technical questions and related models

MODEL-SPECIFIC 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.
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.

RELATED MODELS ON APTERPOWER

Bently Nevada 330780-50-CN	Related product reference. Review the complete ordering string before selection.
Bently Nevada 330980-51-CN	Related product reference. Compare the required interface and system position.
Bently Nevada 330750-40	Related product reference. Confirm the execution independently for the intended task.

DOCUMENT AND SELECTION RECORD

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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