Bently Nevada 3701/60A

Technical Reference

Bently Nevada 3701/60A is a wind-turbine condition-monitoring platform for collecting machinery vibration and operating-condition data.

PRODUCT ROLE AND TECHNICAL FEATURES

Feature 1

Collects turbine drivetrain condition signals.

Feature 2

Supports vibration trending across critical rotating components.

Feature 3

Provides a dedicated platform for wind-turbine monitoring.

Feature 4

Integrates measured data with diagnostic and maintenance workflows.

TECHNICAL DATA SNAPSHOT

System family	3701 wind monitoring
Primary asset	Wind turbine drivetrain
Monitoring role	Condition and vibration monitoring
Typical measurement points	Bearings, gearbox, generator and rotor train

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	3701 wind monitoring
Primary asset	Wind turbine drivetrain
Monitoring role	Condition and vibration monitoring
Typical measurement points	Bearings, gearbox, generator and rotor train
Data use	Trending, diagnostics and maintenance planning
Signal sources	Installed vibration and condition sensors
Retrofit relationship	Supported by documented 3701/60A retrofit hardware
Acceptance method	Verify channel mapping, signal quality and communications

SELECTION ANCHORS

- Collects turbine drivetrain condition signals.
- Supports vibration trending across critical rotating components.
- Provides a dedicated platform for wind-turbine monitoring.
- Integrates measured data with diagnostic and maintenance workflows.

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

Where is retrofit relationship used by Bently Nevada 3701/60A?	The documented retrofit relationship is Supported by documented 3701/60A retrofit hardware; confirm it against the installed record.
What controls acceptance method on Bently Nevada 3701/60A?	The documented acceptance method is Verify channel mapping, signal quality and communications; confirm it against the installed record.

System role and architecture

Field device → Product interface → System channel → Verified response

APPLICATION POINTS

Gearbox condition monitoring

Tracks bearing and gear vibration patterns.

Generator monitoring

Supervises generator-bearing condition.

Main-bearing trending

Records long-term vibration changes.

Wind-farm maintenance

Supports condition-based maintenance decisions.

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 3701/60A only in the documented monitoring chain and verify the complete signal path after controlled replacement.

ENGINEERING REVIEW QUESTIONS

How is system family tested on Bently Nevada 3701/60A?	The documented system family is 3701 wind monitoring; confirm it against the installed record.
Which record preserves primary asset for Bently Nevada 3701/60A?	The documented primary asset is Wind turbine drivetrain; confirm it against the installed record.
Which monitoring role applies to Bently Nevada 3701/60A?	The documented monitoring role is Condition and vibration monitoring; confirm it against the installed record.
How is typical measurement points set on Bently Nevada 3701/60A?	The documented typical measurement points is Bearings, gearbox, generator and rotor train; confirm it against the installed record.

Engineering checks and acceptance

PRODUCT PRECAUTIONS

01	Confirm the complete 3701/60A marking and the documented wind turbine condition monitor position.
02	Place the affected machine protection channel in the approved maintenance state.
03	Record the installed system family, primary asset and monitoring role 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 3701/60A identity and every mating interface before installation.

APPLICATION BOUNDARIES

Gearbox condition monitoring	Tracks bearing and gear vibration patterns.
Generator monitoring	Supervises generator-bearing condition.
Main-bearing trending	Records long-term vibration changes.
Wind-farm maintenance	Supports condition-based maintenance decisions.

Technical questions and related models

MODEL-SPECIFIC QUESTIONS

How is system family tested on Bently Nevada 3701/60A?	The documented system family is 3701 wind monitoring; confirm it against the installed record.
Which record preserves primary asset for Bently Nevada 3701/60A?	The documented primary asset is Wind turbine drivetrain; confirm it against the installed record.
Which monitoring role applies to Bently Nevada 3701/60A?	The documented monitoring role is Condition and vibration monitoring; confirm it against the installed record.
How is typical measurement points set on Bently Nevada 3701/60A?	The documented typical measurement points is Bearings, gearbox, generator and rotor train; confirm it against the installed record.
What data use belongs to Bently Nevada 3701/60A?	The documented data use is Trending, diagnostics and maintenance planning; confirm it against the installed record.
Why verify signal sources for Bently Nevada 3701/60A?	The documented signal sources is Installed vibration and condition sensors; confirm it against the installed record.

RELATED MODELS ON APTERPOWER

Bently Nevada 330104-00-10-10-02-CN	Related product reference. Review the complete ordering string before selection.
Bently Nevada 330130-040-00-00	Related product reference. Compare the required interface and system position.
Bently Nevada 330780-50-CN	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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