# Bently Nevada 1701/25

## Complete Product Information

The distributed monitor conditions two seismic inputs, applies configured filtering or integration, compares measurements with alarm setpoints and reports values to the host control system.

### WHAT THIS PRODUCT DOES

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

**Product characteristic 1**

Accepts two seismic transducer inputs.

**Product characteristic 2**

Supports velocity or acceleration measurement configurations.

**Product characteristic 3**

Provides filtering and integration for selected measured variables.

**Product characteristic 4**

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

### PRODUCT-PAGE TECHNICAL SNAPSHOT

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

**IMPORTANT NOTICE**

Record the installed 1701/25 interfaces and configuration before removal, then prove the monitored value, status and alarm path after installation.

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# Features and technical data

## TECHNICAL DATA SHOWN ON THE PRODUCT PAGE

| | |
|---|---|
| **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 |

## FEATURE INTERPRETATION

**Product identity**

Accepts two seismic transducer inputs.

**System role**

Supports velocity or acceleration measurement configurations.

**Service context**

Provides filtering and integration for selected measured variables.

**Return-to-service focus**

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

## SIGNAL OR CONTROL PATH

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

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

## PRODUCT-PAGE TECHNICAL 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. |

# Common applications

The application groups below reproduce the model-specific uses presented on the product page and connect each use to a practical verification point.

| | |
|---|---|
| **Bearing-housing velocity**<br>Monitors casing vibration from velocity sensors. | **Acceleration monitoring**<br>Processes accelerometer signals for protection. |
| **Distributed machine protection**<br>Places monitoring close to package equipment. | **Control-system trending**<br>Supplies measured parameters and status to the host. |

## APPLICATION VERIFICATION MAP

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|---|---|
| **Bearing-housing velocity** | Confirm the documented system position and the required operating function. |
| **Acceleration monitoring** | Compare the restored connection or control path with the approved record. |
| **Distributed machine protection** | Check the physical interface and the retained configuration before startup. |
| **Control-system trending** | Record diagnostics and the final controlled response before release. |

## INFORMATION CARRIED INTO THE WORK RECORD

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| **Identity record**<br>Complete marking and assigned system position. | **Connection record**<br>Connector, conductor and interface arrangement as found. |
| **Configuration record**<br>Controlled settings, application data and option state. | **Acceptance record**<br>Observed status, response and release decision. |

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| **IMPORTANT NOTICE** | Use the complete product identifier for every application review; a related product link does not establish interchangeability. |

## APPLICATION 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. |

# Product precautions and questions

## EIGHT MODEL-SPECIFIC 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. |

## FREQUENTLY ASKED TECHNICAL 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. |

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

## RELEASE CHECKLIST

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|---|---|
| **Identity accepted** | The complete product marking and assigned system position agree. |
| **Interfaces accepted** | Connections, retention and controlled configuration match the recorded condition. |
| **Response accepted** | Diagnostics and the intended technical response have been documented. |

# FAQ, document reference and related models

## ADDITIONAL TECHNICAL QUESTIONS

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|---|---|
| **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. |

## 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. |

## RELATED MODELS ON APTERPOWER

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|---|---|
| Bently Nevada 128031-01 | Related product reference. Review the complete ordering string before selection. |
| Bently Nevada 125720-02 | Related product reference. Compare the required interface and system position. |
| Bently Nevada 3500/61 136711-02 | Related product reference. Confirm the execution independently for the intended task. |

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