# Bently Nevada 2201/03-01

## Complete Product Information

Bently Nevada 2201/03-01 brings four Proximitor measurement channels into the PLC-connected 2201 Monitoring System.

### WHAT THIS PRODUCT DOES

Bently Nevada 2201/03-01 is a four-channel monitor with Proximitor transducer input on all four channels for a 2201 Monitoring System installed in an Allen-Bradley 1771 rack.

**Product characteristic 1**

Accepts Proximitor transducer signals on all four monitor channels.

**Product characteristic 2**

Operates as an intelligent I/O module in an Allen-Bradley 1771 rack.

**Product characteristic 3**

Exchanges configuration and status data with the PLC through block transfers.

**Product characteristic 4**

Provides buffered transducer outputs for local diagnostic measurements.

### PRODUCT-PAGE TECHNICAL SNAPSHOT

| | |
|---|---|
| **Module role** | 2201 Four Channel Monitor |
| **Input option** | 01 |
| **Channel count** | Four |
| **Transducer inputs** | Proximitor inputs on all four channels |

**IMPORTANT NOTICE**

Preserve the PLC addressing and the complete four-channel configuration. Verify the self-test result, buffered outputs and alarm behavior before service release.

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# Features and technical data

## TECHNICAL DATA SHOWN ON THE PRODUCT PAGE

| | |
|---|---|
| **Module role** | 2201 Four Channel Monitor |
| **Input option** | 01 |
| **Channel count** | Four |
| **Transducer inputs** | Proximitor inputs on all four channels |
| **System chassis** | Allen-Bradley 1771 rack |
| **PLC communication** | Block transfer reads and writes plus single data reads |
| **Buffered outputs** | Direct displacement-transducer signals at front coaxial connectors |
| **Channel status** | OK requires valid configuration and input within OK voltage limits |
| **Self-tests** | Power-up, cyclic, and self-test with calibration |

## FEATURE INTERPRETATION

**Product identity**

Accepts Proximitor transducer signals on all four monitor channels.

**System role**

Operates as an intelligent I/O module in an Allen-Bradley 1771 rack.

**Service context**

Exchanges configuration and status data with the PLC through block transfers.

**Return-to-service focus**

Provides buffered transducer outputs for local diagnostic measurements.

## SIGNAL OR CONTROL PATH

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

The monitor belongs to a 2201 system consisting of a System Monitor, a backplane and one or more monitoring modules. PLC configuration, transducer type, full-scale range, filtering and alarm settings must be retained for all four channels.

## PRODUCT-PAGE TECHNICAL QUESTIONS

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|---|---|
| **Which transducer population defines Bently Nevada 2201/03-01?** | The 01 monitor option accepts Proximitor transducer inputs on all four channels. |
| **How many measurement channels are available on Bently Nevada 2201/03-01?** | It provides four general-purpose proximity-monitoring channels. |
| **Where does Bently Nevada 2201/03-01 operate?** | It operates in a 2201 Monitoring System installed in an Allen-Bradley 1771 rack. |

# 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.

**Four-channel proximity monitoring**

Connects four Proximitor transducer signals to the 2201 monitoring architecture.

**PLC-integrated machinery protection**

Transfers configuration, channel values and alarm status through the Allen-Bradley rack interface.

**Thrust or radial measurements**

Applies the configured proximity-channel function for the assigned machine points.

**Diagnostic signal access**

Provides front-panel buffered outputs for approved external diagnostic equipment.

## APPLICATION VERIFICATION MAP

| | |
|---|---|
| **Four-channel proximity monitoring** | Confirm the documented system position and the required operating function. |
| **PLC-integrated machinery protection** | Compare the restored connection or control path with the approved record. |
| **Thrust or radial measurements** | Check the physical interface and the retained configuration before startup. |
| **Diagnostic signal access** | Record diagnostics and the final controlled response before release. |

## INFORMATION CARRIED INTO THE WORK RECORD

**Identity record**

Complete marking and assigned system position.

**Connection record**

Connector, conductor and interface arrangement as found.

**Configuration record**

Controlled settings, application data and option state.

**Acceptance record**

Observed status, response and release decision.

**IMPORTANT NOTICE**

Use the complete product identifier for every application review; a related product link is not evidence of interchangeability.

## APPLICATION QUESTIONS

| | |
|---|---|
| **Where does Bently Nevada 2201/03-01 operate?** | It operates in a 2201 Monitoring System installed in an Allen-Bradley 1771 rack. |
| **How does Bently Nevada 2201/03-01 exchange information with the PLC?** | The 2201 system uses block transfer reads and writes plus single data reads under PLC control. |
| **What signal is available at the front connectors of Bently Nevada 2201/03-01?** | The buffered output provides the direct displacement-transducer signal for approved diagnostic use. |

# Product precautions and questions

## EIGHT MODEL-SPECIFIC PRECAUTIONS

| | |
|---|---|
| **01** | Match the complete 2201/03-01 identity with the recorded 2201 backplane position. |
| **02** | Remove system power and observe electrostatic-discharge controls before handling the monitor. |
| **03** | Record all four channel types, ranges, setpoints, filters and PLC address settings. |
| **04** | Connect only the documented Proximitor input circuits to the four channel terminals. |
| **05** | Preserve shield, common and signal assignments for every transducer connection. |
| **06** | Confirm PLC block-transfer addressing before applying a restored configuration. |
| **07** | Review channel OK, Alert and Danger status after the self-test with calibration completes. |
| **08** | Verify buffered outputs and the required alarm response on all four channels before release. |

## FREQUENTLY ASKED TECHNICAL QUESTIONS

| | |
|---|---|
| **Which transducer population defines Bently Nevada 2201/03-01?** | The 01 monitor option accepts Proximitor transducer inputs on all four channels. |
| **How many measurement channels are available on Bently Nevada 2201/03-01?** | It provides four general-purpose proximity-monitoring channels. |
| **Where does Bently Nevada 2201/03-01 operate?** | It operates in a 2201 Monitoring System installed in an Allen-Bradley 1771 rack. |
| **How does Bently Nevada 2201/03-01 exchange information with the PLC?** | The 2201 system uses block transfer reads and writes plus single data reads under PLC control. |

| | |
|---|---|
| **IMPORTANT NOTICE** | Use only the four-channel Proximitor input arrangement identified by option 01 and restore the recorded PLC configuration before testing alarms. |

## RELEASE CHECKLIST

| | |
|---|---|
| **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, configuration control and related models

## ADDITIONAL TECHNICAL QUESTIONS

| | |
|---|---|
| **What signal is available at the front connectors of Bently Nevada 2201/03-01?** | The buffered output provides the direct displacement-transducer signal for approved diagnostic use. |
| **What makes a channel OK on Bently Nevada 2201/03-01?** | The channel must pass the monitor tests, have a valid configuration and receive an input within the upper and lower OK voltage limits. |
| **Which self-tests support fault detection in Bently Nevada 2201/03-01?** | The system performs power-up and cyclic self-tests and runs a self-test with calibration when the full configuration is written. |
| **What must be demonstrated after configuring Bently Nevada 2201/03-01?** | All four channels must show the expected value, OK state, buffered signal and configured Alert and Danger response. |

## CONFIGURATION CONTROL RECORD

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|---|---|
| **Configuration identity** | Bently Nevada 2201/03-01 |
| **Technical boundary** | Apply only the functions and interfaces shown for this product or its identified system family. |
| **Selection control** | Match the complete ordering string and installed interfaces before purchase or installation. |

## RELATED MODELS ON APTERPOWER

| | |
|---|---|
| Bently Nevada 330103-00-04-10-01-05 | Related product reference. Review the complete ordering string before selection. |
| Bently Nevada 330103-00-04-15-02-cn | Related product reference. Compare the required interface and system position. |
| Bently Nevada 330103-00-05-10-02-00 | Related product reference. Confirm the execution independently for the intended task. |

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