Bently Nevada 2201/03-01

Installation & Commissioning Guide

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 ROLE AND VERIFIED FEATURES

Feature 1

Accepts Proximitor transducer signals on all four monitor channels.

Feature 2

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

Feature 3

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

Feature 4

Provides buffered transducer outputs for local diagnostic measurements.

VERIFIED DATA SNAPSHOT

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

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

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	

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

CONFIGURATION AND WORK CONTROLS

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.

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Installation sequence

CONTROLLED WORK STEPS

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.

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.



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 EVIDENCE

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.

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

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.

Release record and technical references

CLOSEOUT 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.

RELATED MODELS FOR INSTALLATION PLANNING

Bently Nevada 330103-00-03-05-02-00	Installation-planning reference. Review the complete ordering string before selection.
Bently Nevada 330103-00-03-10-01-05	Installation-planning reference. Compare the required interface and system position.
Bently Nevada 330103-00-03-10-02-00	Installation-planning reference. Confirm the execution independently for the intended task.

CONFIGURATION AND FINAL CONTROL

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.

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

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