Bently Nevada 2201/03-01

Technical Reference

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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Technical profile

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

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

SELECTION ANCHORS

- Accepts Proximitor transducer signals on all four monitor channels.
- Operates as an intelligent I/O module in an Allen-Bradley 1771 rack.
- Exchanges configuration and status data with the PLC through block transfers.
- Provides buffered transducer outputs for local diagnostic measurements.

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

CONFIGURATION 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.

ADDITIONAL ENGINEERING CHECKS

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.

System role and architecture

Field device → Product interface → System channel → Verified response

APPLICATION POINTS

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.

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 evidence	Record the expected static value, dynamic response and system status.

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.

ENGINEERING REVIEW 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.

Engineering checks and acceptance

PRODUCT 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.

RELEASE EVIDENCE

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

APPLICATION BOUNDARIES

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.

Technical questions and related models

MODEL-SPECIFIC 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.
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.

RELATED MODELS ON APTERPOWER

Bently Nevada 330102-00-80-10-02-00	Related product reference. Review the complete ordering string before selection.
Bently Nevada 330102-03-28-10-02-00	Related product reference. Compare the required interface and system position.
Bently Nevada 330103-00-02-10-02-05	Related product reference. Confirm the execution independently for the intended task.

CONFIGURATION AND SELECTION RECORD

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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