Foxboro FBM203 P0914SV

Installation & Commissioning Guide

Foxboro FBM203 P0914SV is a rtd input module for resistance-temperature detector inputs. It operates with the RTD termination assembly and configured analog-input application and provides eight independent temperature channels.

PRODUCT ROLE AND VERIFIED FEATURES

Feature 1

Provides eight independent temperature channels for its rtd input module function.

Feature 2

Handles resistance-temperature detector inputs through the documented Foxboro system path.

Feature 3

Works with the RTD termination assembly and configured analog-input application.

Feature 4

Independent conversion and isolation support channel-by-channel temperature acquisition.

VERIFIED DATA SNAPSHOT

RTD channels	8 isolated inputs
Sensor wiring	2-wire or 3-wire RTDs
Resistance range	0 to 320 ohms
Supported elements	Platinum, nickel and copper RTDs

SYSTEM RELATIONSHIP

RTD element → **Input termination** → **FBM203 conversion** → **Control value**

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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

RTD channels

8 isolated inputs

Sensor wiring

2-wire or 3-wire RTDs

Resistance range

0 to 320 ohms

Supported elements

Platinum, nickel and copper RTDs

Fieldbus

Redundant 2 Mbps module Fieldbus

IMPORTANT NOTICE

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

SOURCE AND WORK CONTROLS

Manufacturer source	Schneider Electric, Foxboro DCS FBM203/b/c/d RTD Input Modules, PSS 41H-2S203 Rev B.
Evidence boundary	Technical statements are limited to the identified product or applicable manufacturer family.
Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

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Installation sequence

CONTROLLED WORK STEPS

01	Match the complete FBM203 P0914SV marking to the work order and installed position before removal.
02	Confirm the RTD termination assembly and configured analog-input application before disconnecting any interface.
03	Keep resistance-temperature detector inputs within the documented electrical or pneumatic range.
04	Record terminal designations, polarity, common, shield and cable routing before disconnection.
05	Inspect mounting, connector keying, terminal condition and retention hardware before installation.
06	Restore the controlled database, range, alarm, filter and fail-state settings before energization.
07	Review local indicators and controller diagnostics during the controlled startup sequence.
08	Prove the intended response across eight independent temperature channels and record the acceptance result 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.

RTD element → **Input termination** → **FBM203 conversion** → **Control value**

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

System maintenance

Restores the documented rtd input module function in an existing Foxboro control system.

Signal-path service

Supports controlled testing of resistance-temperature detector inputs at the assigned system position.

Planned replacement

Provides an exact-identity replacement path after the RTD termination assembly and configured analog-input application has been verified.

Commissioning

Allows the responsible engineer to prove configuration, diagnostics and response for eight independent temperature channels.

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 RTD materials are supported by Foxboro FBM203 P0914SV?	The documented module family supports platinum, nickel and copper resistance-temperature detectors.
How many temperature channels are provided?	Eight isolated RTD input channels are available.

Release record and technical references

CLOSEOUT QUESTIONS

Which lead configurations can be connected?	The module accepts two-wire or three-wire RTD circuits.
What resistance span is associated with P0914SV?	The documented input range is 0 to 320 ohms.
How should lead resistance be handled?	Use the approved wiring mode and termination arrangement, then verify the configured compensation and measured value.
Which fieldbus carries the converted measurements?	Values are communicated over the redundant 2 Mbps module Fieldbus.
What should be tested after changing an RTD channel?	Apply a known resistance or temperature reference and compare the channel value, diagnostics and alarm behavior.
Can an extended-range FBM203 variant be substituted directly?	No. Confirm the complete part number, RTD range, sensor wiring and database configuration.

RELATED MODELS FOR INSTALLATION PLANNING

Bently Nevada 125720-02	Installation-planning reference. Review the complete ordering string before selection.
Bently Nevada 138708-01	Installation-planning reference. Compare the required interface and system position.
Bently Nevada 330130-045-00-CN	Installation-planning reference. Confirm the execution independently for the intended task.

MANUFACTURER SOURCE AND FINAL CONTROL

Manufacturer source	Schneider Electric, Foxboro DCS FBM203/b/c/d RTD Input Modules, PSS 41H-2S203 Rev B.
Evidence boundary	Technical statements are limited to the identified product or applicable manufacturer family.
Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

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

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