Foxboro AD916AG FBM204

Installation & Commissioning Guide

Foxboro AD916AG FBM204 serves as an integrated analog i/o termination in the Foxboro FBM module-fieldbus path. It interfaces 0-20 mA input and output loops with FBM204 mixed analog I/O path and the installed termination assembly.

PRODUCT ROLE AND VERIFIED FEATURES

Feature 1

Provides four inputs and four outputs for the documented integrated analog i/o termination function.

Feature 2

Handles 0-20 mA input and output loops through the specified Foxboro FBM module-fieldbus path.

Feature 3

Works with FBM204 mixed analog I/O path and the installed termination assembly.

Feature 4

Input and output channels are galvanically isolated for field-loop separation.

VERIFIED DATA SNAPSHOT

Analog inputs	4 isolated 0-20 mA dc channels
Analog outputs	4 isolated 0-20 mA dc channels
Input devices	4-20 mA transmitters or self-powered 20 mA sources
Output function	Each output drives an external current-loop load

SYSTEM RELATIONSHIP

Field connection → **I/O module** → **Rack interface** → **Monitor channel**

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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

Analog inputs

4 isolated 0-20 mA dc channels

Analog outputs

4 isolated 0-20 mA dc channels

Input devices

4-20 mA transmitters or self-powered 20 mA sources

Output function

Each output drives an external current-loop load

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 FBM204 0 to 20 mA I/O Module Product Specification, PSS 41H-2S204, May 2025.
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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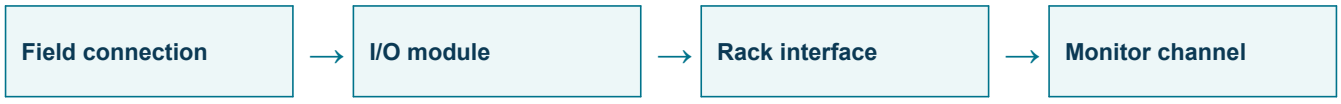
Installation sequence

CONTROLLED WORK STEPS

01	Match the complete AD916AG FBM204 marking to the work order and installed position before removal.
02	Confirm FBM204 mixed analog I/O path and the installed termination assembly before making or breaking any field connection.
03	Keep the assigned 0-20 mA input and output loops within the documented subsystem and range.
04	Record terminal designations, polarity, common and shield treatment before disconnecting conductors.
05	Inspect module seating, connector keying, terminal condition and strain relief before power is restored.
06	Restore the controlled channel configuration, range selection and alarm or timeout behavior after installation.
07	Check local indicators and controller diagnostics for internal, communication or channel faults during commissioning.
08	Prove the intended response across four inputs and four outputs 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.



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

Installed-base maintenance

Restores the documented integrated analog i/o termination position without changing the approved system architecture.

Loop or channel service

Supports verification of 0-20 mA input and output loops at the assigned control-system channel.

Planned replacement

Provides an exact-identity replacement path when FBM204 mixed analog I/O path and the installed termination assembly and the field interface have been confirmed.

Commissioning support

Allows the responsible engineer to prove wiring, configuration, status and response for four inputs and four outputs.

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

What function does Foxboro AD916AG FBM204 perform?	It provides the integrated field-termination path for the FBM204 mixed analog input/output subsystem used in current-loop measurement and control.
How many channels are associated with Foxboro AD916AG FBM204?	The documented configuration provides four inputs and four outputs.

Release record and technical references

CLOSEOUT QUESTIONS

Which signal path is used by Foxboro AD916AG FBM204?	It is used for 0-20 mA input and output loops within the specified subsystem.
Which companion hardware must be checked for Foxboro AD916AG FBM204?	Confirm FBM204 mixed analog I/O path and the installed termination assembly and the project-specific base or terminal arrangement.
What technical values should be verified before installing Foxboro AD916AG FBM204?	Verify 4 isolated 0-20 mA dc channels; also confirm 4 isolated 0-20 ma dc channels and every applicable range or wiring selection.
What connection details should be recorded for Foxboro AD916AG FBM204?	Record terminal identifiers, polarity, common, shield termination, connector keying and the assigned channel before disconnection.
Which diagnostics should be reviewed when commissioning Foxboro AD916AG FBM204?	Review the applicable power, communication, internal-fault and channel-status indications, then compare the controller status with the expected field condition.
Can a nearby ordering code replace Foxboro AD916AG FBM204 without an engineering check?	No. Match the complete identifier, companion hardware, signal range, wiring and controlled project configuration before substitution.

RELATED MODELS FOR INSTALLATION PLANNING

Westinghouse 1C31147G01	Installation-planning reference. Review the complete ordering string before selection.
Westinghouse 1C31192G01	Installation-planning reference. Compare the required interface and system position.
Westinghouse 5X00119G01	Installation-planning reference. Confirm the execution independently for the intended task.

MANUFACTURER SOURCE AND FINAL CONTROL

Manufacturer source	Schneider Electric, Foxboro DCS FBM204 0 to 20 mA I/O Module Product Specification, PSS 41H-2S204, May 2025.
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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