Foxboro FBM204 P0914SY

Complete Product Information

Foxboro FBM204 P0914SY combines four isolated 0 to 20 mA input channels with four isolated 0 to 20 mA output channels for Foxboro process loops.

WHAT THIS PRODUCT DOES

Foxboro FBM204 P0914SY is a mixed analog i/o module for 0 to 20 mA measurement and control loops. It operates with the selected termination assembly and redundant 2 Mbps module Fieldbus and provides four analog inputs and four analog outputs.

Product characteristic 1

Provides four analog inputs and four analog outputs for its mixed analog i/o module function.

Product characteristic 2

Handles 0 to 20 mA measurement and control loops through the documented Foxboro system path.

Product characteristic 3

Works with the selected termination assembly and redundant 2 Mbps module Fieldbus.

Product characteristic 4

Each channel is galvanically isolated from the other channels and ground.

PRODUCT-PAGE TECHNICAL SNAPSHOT

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

IMPORTANT NOTICE

Use FBM204 P0914SY only with the selected termination assembly and redundant 2 Mbps module Fieldbus; verify every interface and the controlled project configuration before energizing or pressurizing the subsystem.

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Features and technical data

TECHNICAL DATA SHOWN ON THE PRODUCT PAGE

Analog inputs	4 isolated 0 to 20 mA dc channels
Analog outputs	4 isolated 0 to 20 mA dc channels
Input sources	4 to 20 mA transmitters or self-powered 20 mA sources
Output load	Each output drives an external current-loop load
Module fieldbus	Redundant 2 Mbps communication paths

FEATURE INTERPRETATION

Product identity

Provides four analog inputs and four analog outputs for its mixed analog i/o module function.

System role

Handles 0 to 20 mA measurement and control loops through the documented Foxboro system path.

Service context

Works with the selected termination assembly and redundant 2 Mbps module Fieldbus.

Return-to-service focus

Each channel is galvanically isolated from the other channels and ground.

SIGNAL OR CONTROL PATH

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

The mixed analog i/o module belongs in the controlled Foxboro architecture and works with the selected termination assembly and redundant 2 Mbps module Fieldbus. Its mating hardware, wiring, database configuration and final response must be checked together before release.

PRODUCT-PAGE TECHNICAL QUESTIONS

How are the channels divided on Foxboro FBM204 P0914SY?	The module provides four isolated analog inputs and four isolated analog outputs.
Which input signals can its four input channels accept?	They accept 0 to 20 mA dc signals from two-wire transmitters or self-powered current sources.
What does each output channel drive?	Each output supplies a controlled current signal to an external loop load.

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.

System maintenance

Restores the documented mixed analog i/o module function in an existing Foxboro control system.

Signal-path service

Supports controlled testing of 0 to 20 mA measurement and control loops at the assigned system position.

Planned replacement

Provides an exact-identity replacement path after the selected termination assembly and redundant 2 Mbps module Fieldbus has been verified.

Commissioning

Allows the responsible engineer to prove configuration, diagnostics and response for four analog inputs and four analog outputs.

APPLICATION VERIFICATION MAP

System maintenance	Confirm the documented system position and the required operating function.
Signal-path service	Compare the restored connection or control path with the approved record.
Planned replacement	Check the physical interface and the retained configuration before startup.
Commissioning	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

What does each output channel drive?	Each output supplies a controlled current signal to an external loop load.
How is channel interaction limited?	Galvanic isolation separates each input and output from the other channels and ground.
Which fieldbus path carries the converted values?	The module communicates over the redundant 2 Mbps module Fieldbus.

Product precautions and questions

EIGHT MODEL-SPECIFIC PRECAUTIONS

01	Match the complete FBM204 P0914SY marking to the work order and installed position before removal.
02	Confirm the selected termination assembly and redundant 2 Mbps module Fieldbus before disconnecting any interface.
03	Keep 0 to 20 mA measurement and control loops 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 four analog inputs and four analog outputs and record the acceptance result before release.

FREQUENTLY ASKED TECHNICAL QUESTIONS

How are the channels divided on Foxboro FBM204 P0914SY?	The module provides four isolated analog inputs and four isolated analog outputs.
Which input signals can its four input channels accept?	They accept 0 to 20 mA dc signals from two-wire transmitters or self-powered current sources.
What does each output channel drive?	Each output supplies a controlled current signal to an external loop load.
How is channel interaction limited?	Galvanic isolation separates each input and output from the other channels and ground.

IMPORTANT NOTICE	Use FBM204 P0914SY only with the selected termination assembly and redundant 2 Mbps module Fieldbus; verify every interface and the controlled project configuration before energizing or pressurizing the subsystem.

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, source record and related models

ADDITIONAL TECHNICAL QUESTIONS

Which fieldbus path carries the converted values?	The module communicates over the redundant 2 Mbps module Fieldbus.
What should be checked before connecting a transmitter?	Confirm loop power method, polarity, termination assembly and the assigned input range.
What should be observed during an output-loop test?	Verify commanded current, load response, channel status and the receiving device indication.
Can P0914SY be replaced by a nearby FBM204 code without review?	No. Match the complete part number, termination hardware, loop wiring and controlled configuration.

MANUFACTURER EVIDENCE RECORD

Manufacturer source	Schneider Electric, Foxboro DCS FBM204 0 to 20 mA I/O Module Product Specification, PSS 31H-2S204.
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.

RELATED MODELS ON APTERPOWER

Bently Nevada 330102-00-12-10-01-05	Related product reference. Review the complete ordering string before selection.
Bently Nevada 330104-00-08-15-02-00	Related product reference. Compare the required interface and system position.
Bently Nevada 330130-075-01-00	Related product reference. Confirm the execution independently for the intended task.

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