Foxboro FBM214 P0914XQ

Complete Product Information

Foxboro FBM214 P0914XQ provides eight group-isolated 4 to 20 mA inputs with superimposed HART FSK communication for intelligent field transmitters.

WHAT THIS PRODUCT DOES

Foxboro FBM214 P0914XQ is a hart communication input module for 4 to 20 mA measurement with bidirectional HART messaging. It operates with the HART termination assembly, loop power and I/A Series database and provides eight HART-capable input loops.

Product characteristic 1

Provides eight HART-capable input loops for its hart communication input module function.

Product characteristic 2

Handles 4 to 20 mA measurement with bidirectional HART messaging through the documented Foxboro system path.

Product characteristic 3

Works with the HART termination assembly, loop power and I/A Series database.

Product characteristic 4

A dedicated FSK modem supports digital communication with each connected HART device.

PRODUCT-PAGE TECHNICAL SNAPSHOT

Input channels	8 group-isolated analog inputs
Analog signal	4 to 20 mA
Digital communication	HART FSK superimposed on the analog signal
Conversion	Analog-to-digital conversion for each loop

IMPORTANT NOTICE

Use FBM214 P0914XQ only with the HART termination assembly, loop power and I/A Series database; 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

Input channels	8 group-isolated analog inputs
Analog signal	4 to 20 mA
Digital communication	HART FSK superimposed on the analog signal
Conversion	Analog-to-digital conversion for each loop
Channel power	Common isolated supply or controlled external supply

FEATURE INTERPRETATION

Product identity

Provides eight HART-capable input loops for its hart communication input module function.

System role

Handles 4 to 20 mA measurement with bidirectional HART messaging through the documented Foxboro system path.

Service context

Works with the HART termination assembly, loop power and I/A Series database.

Return-to-service focus

A dedicated FSK modem supports digital communication with each connected HART device.

SIGNAL OR CONTROL PATH

HART transmitter → **4-20 mA loop** → **FBM214 input** → **Control database**

The hart communication input module belongs in the controlled Foxboro architecture and works with the HART termination assembly, loop power and I/A Series database. Its mating hardware, wiring, database configuration and final response must be checked together before release.

PRODUCT-PAGE TECHNICAL QUESTIONS

What signals can Foxboro FBM214 P0914XQ receive?	Each channel accepts a 4 to 20 mA analog input with optional HART FSK communication superimposed.
How many HART devices can be connected?	Eight input channels are provided, each with its own HART communication path.
What isolation arrangement is used by FBM214?	The eight input channels are group isolated from ground and module logic.

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 hart communication input module function in an existing Foxboro control system.

Signal-path service

Supports controlled testing of 4 to 20 mA measurement with bidirectional HART messaging at the assigned system position.

Planned replacement

Provides an exact-identity replacement path after the HART termination assembly, loop power and I/A Series database has been verified.

Commissioning

Allows the responsible engineer to prove configuration, diagnostics and response for eight HART-capable input loops.

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 isolation arrangement is used by FBM214?	The eight input channels are group isolated from ground and module logic.
How may the field devices be powered?	The common isolated module supply may power the loops, or an approved external supply may be used with the required crosstalk controls.
Why is a Cable Balun required for some external supplies?	It reduces channel crosstalk when a common external source powers multiple HART loops.

Product precautions and questions

EIGHT MODEL-SPECIFIC PRECAUTIONS

01	Match the complete FBM214 P0914XQ marking to the work order and installed position before removal.
02	Confirm the HART termination assembly, loop power and I/A Series database before disconnecting any interface.
03	Keep 4 to 20 mA measurement with bidirectional HART messaging 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 HART-capable input loops and record the acceptance result before release.

FREQUENTLY ASKED TECHNICAL QUESTIONS

What signals can Foxboro FBM214 P0914XQ receive?	Each channel accepts a 4 to 20 mA analog input with optional HART FSK communication superimposed.
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What isolation arrangement is used by FBM214?	The eight input channels are group isolated from ground and module logic.
How may the field devices be powered?	The common isolated module supply may power the loops, or an approved external supply may be used with the required crosstalk controls.

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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

Why is a Cable Balun required for some external supplies?	It reduces channel crosstalk when a common external source powers multiple HART loops.
Which HART values should be checked during commissioning?	Verify the analog primary value, digital device identity, diagnostics and bidirectional command response.
Is P0914XQ the current FBM214 part number?	It is the legacy FBM214 ordering code; newer documentation also lists later FBM214 part-number executions.
What prevents an incorrect HART-module substitution?	Match the complete P0914XQ identity, isolation architecture, termination assembly, loop power and database configuration.

MANUFACTURER EVIDENCE RECORD

Manufacturer source	Invensys, I/A Series FBM214 HART Communication Input Interface Module, PSS 21H-2Z14 B4; P0914XQ is identified as the legacy FBM214 part number in B0400FA.
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

Siemens 6ES5301-3AB13	Related product reference. Review the complete ordering string before selection.
Siemens 6ES5300-3AB11	Related product reference. Compare the required interface and system position.
Siemens 6ES7134-4NB51-0AB0	Related product reference. Confirm the execution independently for the intended task.

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