Foxboro FBM215 P0917TQ

Complete Product Information

Foxboro FBM215 P0917TQ provides eight channel-isolated 4 to 20 mA outputs with superimposed HART FSK communication for intelligent actuators.

WHAT THIS PRODUCT DOES

Foxboro FBM215 P0917TQ is a hart communication output module for analog control output with bidirectional HART communication. It operates with the assigned HART output termination assembly and field actuator loops and provides eight isolated output channels.

Product characteristic 1

Provides eight isolated output channels for its hart communication output module function.

Product characteristic 2

Handles analog control output with bidirectional HART communication through the documented Foxboro system path.

Product characteristic 3

Works with the assigned HART output termination assembly and field actuator loops.

Product characteristic 4

Every output is galvanically isolated from the other channels, ground and module logic.

PRODUCT-PAGE TECHNICAL SNAPSHOT

Output channels	8 individually isolated channels
Output signal	4 to 20 mA with HART FSK
Supported HART devices	Version 5, 6 or 7 compliant instruments
Output load	750 ohms maximum

IMPORTANT NOTICE

Use FBM215 P0917TQ only with the assigned HART output termination assembly and field actuator loops; 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

Output channels	8 individually isolated channels
Output signal	4 to 20 mA with HART FSK
Supported HART devices	Version 5, 6 or 7 compliant instruments
Output load	750 ohms maximum
Analog accuracy	+/-0.05% of span from 4 to 20 mA

FEATURE INTERPRETATION

Product identity

Provides eight isolated output channels for its hart communication output module function.

System role

Handles analog control output with bidirectional HART communication through the documented Foxboro system path.

Service context

Works with the assigned HART output termination assembly and field actuator loops.

Return-to-service focus

Every output is galvanically isolated from the other channels, ground and module logic.

SIGNAL OR CONTROL PATH

Control database → **FBM215 output** → **4-20 mA + HART** → **Smart actuator**

The hart communication output module belongs in the controlled Foxboro architecture and works with the assigned HART output termination assembly and field actuator loops. Its mating hardware, wiring, database configuration and final response must be checked together before release.

PRODUCT-PAGE TECHNICAL QUESTIONS

What output does Foxboro FBM215 P0917TQ provide?	Each channel supplies a 4 to 20 mA control signal with optional superimposed HART FSK communication.
How many actuator loops are isolated?	All eight output channels are individually isolated.
Which HART instrument revisions are supported?	The documented module accepts compliant HART Version 5, 6 or 7 instruments.

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 output module function in an existing Foxboro control system.

Signal-path service

Supports controlled testing of analog control output with bidirectional HART communication at the assigned system position.

Planned replacement

Provides an exact-identity replacement path after the assigned HART output termination assembly and field actuator loops has been verified.

Commissioning

Allows the responsible engineer to prove configuration, diagnostics and response for eight isolated output channels.

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

Which HART instrument revisions are supported?	The documented module accepts compliant HART Version 5, 6 or 7 instruments.
What is the maximum output-loop load?	The specified maximum load is 750 ohms.
What analog accuracy is specified?	Accuracy is +/-0.05 percent of span between 4 and 20 mA.

Product precautions and questions

EIGHT MODEL-SPECIFIC PRECAUTIONS

01	Match the complete FBM215 P0917TQ marking to the work order and installed position before removal.
02	Confirm the assigned HART output termination assembly and field actuator loops before disconnecting any interface.
03	Keep analog control output with bidirectional HART communication 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 isolated output channels and record the acceptance result before release.

FREQUENTLY ASKED TECHNICAL QUESTIONS

What output does Foxboro FBM215 P0917TQ provide?	Each channel supplies a 4 to 20 mA control signal with optional superimposed HART FSK communication.
How many actuator loops are isolated?	All eight output channels are individually isolated.
Which HART instrument revisions are supported?	The documented module accepts compliant HART Version 5, 6 or 7 instruments.
What is the maximum output-loop load?	The specified maximum load is 750 ohms.

IMPORTANT NOTICE	Use FBM215 P0917TQ only with the assigned HART output termination assembly and field actuator loops; 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

What analog accuracy is specified?	Accuracy is +/-0.05 percent of span between 4 and 20 mA.
How should a valve-positioner loop be tested?	Command several current points, verify actuator response and read back the HART identity and diagnostics.
Why must output fail-state behavior be recorded?	The controlled application determines the safe output and response if communication or module status is lost.
Can another FBM215 code replace P0917TQ automatically?	No. Confirm the legacy part identity, channel isolation, termination, HART revision and configured output action.

MANUFACTURER EVIDENCE RECORD

Manufacturer source	Invensys, I/A Series FBM215 HART Communication Output Interface Module, PSS 21H-2Z15 B4; P0917TQ is identified as the legacy FBM215 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 6DS1606-8BA	Related product reference. Review the complete ordering string before selection.
Honeywell K2LCN-4-51401551-400	Related product reference. Compare the required interface and system position.
Honeywell 51196654-100	Related product reference. Confirm the execution independently for the intended task.

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