Foxboro FBM223 P0917HD

Complete Product Information

Foxboro FBM223 P0917HD links PROFIBUS-DP slave devices to the I/A Series control database through two independent RS-485 bus segments.

WHAT THIS PRODUCT DOES

Foxboro FBM223 P0917HD is a profibus-dp communication interface module for master/slave PROFIBUS-DP data and diagnostics. It operates with the selected PROFIBUS termination assembly, bus cabling and I/A Series control station and provides two independent PROFIBUS-DP ports.

Product characteristic 1

Provides two independent PROFIBUS-DP ports for its profibus-dp communication interface module function.

Product characteristic 2

Handles master/slave PROFIBUS-DP data and diagnostics through the documented Foxboro system path.

Product characteristic 3

Works with the selected PROFIBUS termination assembly, bus cabling and I/A Series control station.

Product characteristic 4

The interface transfers slave variables and diagnostic messages into the control database.

PRODUCT-PAGE TECHNICAL SNAPSHOT

Protocol	PROFIBUS-DP
Physical layer	EIA RS-485
Bus segments	2 independent ports
Devices per unexpanded bus	Up to 31 slave devices

IMPORTANT NOTICE

Use FBM223 P0917HD only with the selected PROFIBUS termination assembly, bus cabling and I/A Series control station; verify every interface and the controlled project configuration before energizing or pressurizing the subsystem.

APTERPOWER SALES TEAM
WhatsApp / Phone: +86 180 3023 5313
Email: sales13@apterpower.com
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Features and technical data

TECHNICAL DATA SHOWN ON THE PRODUCT PAGE

Protocol	PROFIBUS-DP
Physical layer	EIA RS-485
Bus segments	2 independent ports
Devices per unexpanded bus	Up to 31 slave devices
Expanded capacity	Up to 91 slave devices per port with approved repeaters

FEATURE INTERPRETATION

Product identity

Provides two independent PROFIBUS-DP ports for its profibus-dp communication interface module function.

System role

Handles master/slave PROFIBUS-DP data and diagnostics through the documented Foxboro system path.

Service context

Works with the selected PROFIBUS termination assembly, bus cabling and I/A Series control station.

Return-to-service focus

The interface transfers slave variables and diagnostic messages into the control database.

SIGNAL OR CONTROL PATH

I/A control station → **FBM223 interface** → **RS-485 segment** → **PROFIBUS slaves**

The profibus-dp communication interface module belongs in the controlled Foxboro architecture and works with the selected PROFIBUS termination assembly, bus cabling and I/A Series control station. Its mating hardware, wiring, database configuration and final response must be checked together before release.

PRODUCT-PAGE TECHNICAL QUESTIONS

What network is interfaced by Foxboro FBM223 P0917HD?	It connects PROFIBUS-DP slave devices to the I/A Series control system.
How many PROFIBUS segments are available?	Two independent RS-485 bus ports are provided.
How many slaves fit on a bus without repeaters?	An unexpanded segment supports up to 31 slave devices.

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 profibus-dp communication interface module function in an existing Foxboro control system.

Signal-path service

Supports controlled testing of master/slave PROFIBUS-DP data and diagnostics at the assigned system position.

Planned replacement

Provides an exact-identity replacement path after the selected PROFIBUS termination assembly, bus cabling and I/A Series control station has been verified.

Commissioning

Allows the responsible engineer to prove configuration, diagnostics and response for two independent PROFIBUS-DP ports.

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

How many slaves fit on a bus without repeaters?	An unexpanded segment supports up to 31 slave devices.
What capacity is possible with approved repeaters?	The documented expanded topology supports up to 91 slave devices per port.
Which data reaches the control database?	Process variables and PROFIBUS diagnostic messages from configured slave devices are integrated.

Product precautions and questions

EIGHT MODEL-SPECIFIC PRECAUTIONS

01	Match the complete FBM223 P0917HD marking to the work order and installed position before removal.
02	Confirm the selected PROFIBUS termination assembly, bus cabling and I/A Series control station before disconnecting any interface.
03	Keep master/slave PROFIBUS-DP data and diagnostics 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 two independent PROFIBUS-DP ports and record the acceptance result before release.

FREQUENTLY ASKED TECHNICAL QUESTIONS

What network is interfaced by Foxboro FBM223 P0917HD?	It connects PROFIBUS-DP slave devices to the I/A Series control system.
How many PROFIBUS segments are available?	Two independent RS-485 bus ports are provided.
How many slaves fit on a bus without repeaters?	An unexpanded segment supports up to 31 slave devices.
What capacity is possible with approved repeaters?	The documented expanded topology supports up to 91 slave devices per port.

IMPORTANT NOTICE	Use FBM223 P0917HD only with the selected PROFIBUS termination assembly, bus cabling and I/A Series control station; 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 data reaches the control database?	Process variables and PROFIBUS diagnostic messages from configured slave devices are integrated.
When is bus termination required?	Terminate each RS-485 segment at its physical ends according to the TA and network layout.
What must be recorded before changing an FBM223?	Save both port configurations, slave addresses, data maps, baud/topology settings and diagnostic state.
What proves the interface is ready for service?	Confirm both ports, every expected slave, mapped process data and device diagnostics from the control station.

MANUFACTURER EVIDENCE RECORD

Manufacturer source	Invensys, I/A Series FBM223 PROFIBUS-DP Communication Interface Module, PSS 21H-2Z23 B4.
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 6DD1610-0AG1	Related product reference. Review the complete ordering string before selection.
Siemens 6DM1001-2LA02-2	Related product reference. Compare the required interface and system position.
Siemens 6DD3460-0AC0	Related product reference. Confirm the execution independently for the intended task.

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