Westinghouse 5X00106G01

Complete Product Information

Westinghouse 5X00106G01 interfaces eight isolated 4-20 mA HART current loops to the Ovation controller while retaining both analog measurement and digital device communication.

WHAT THIS PRODUCT DOES

Westinghouse 5X00106G01 serves as a hart analog input electronics module in the Ovation I/O subsystem. It interfaces 4-20 mA current loop with HART communication with 5X00109G01 HART high-performance analog-input personality module.

Product characteristic 1

Provides eight isolated input channels for the documented hart analog input electronics module function.

Product characteristic 2

Handles 4-20 mA current loop with HART communication through the specified Ovation I/O subsystem.

Product characteristic 3

Works with 5X00109G01 HART high-performance analog-input personality module.

Product characteristic 4

A dedicated HART transceiver and isolated UART path is provided for each input channel.

PRODUCT-PAGE TECHNICAL SNAPSHOT

Channels	8 galvanically isolated analog inputs
Nominal range	4-20 mA
Checked range	2.5 to 25 mA with under-range and over-range checking
A/D resolution	14 bits

IMPORTANT NOTICE

Use 5X00106G01 only with 5X00109G01 HART high-performance analog-input personality module; verify the field interface and controlled configuration before energizing the subsystem.

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Features and technical data

TECHNICAL DATA SHOWN ON THE PRODUCT PAGE

Channels	8 galvanically isolated analog inputs
Nominal range	4-20 mA
Checked range	2.5 to 25 mA with under-range and over-range checking
A/D resolution	14 bits
Personality module	5X00109G01

FEATURE INTERPRETATION

Product identity

Provides eight isolated input channels for the documented hart analog input electronics module function.

System role

Handles 4-20 mA current loop with HART communication through the specified Ovation I/O subsystem.

Service context

Works with 5X00109G01 HART high-performance analog-input personality module.

Return-to-service focus

A dedicated HART transceiver and isolated UART path is provided for each input channel.

SIGNAL OR CONTROL PATH

Field signal → **Termination** → **Input module** → **Control database**

The hart analog input electronics module belongs in the controlled Ovation I/O subsystem and works with 5X00109G01 HART high-performance analog-input personality module. Its field connection, companion hardware and project configuration must be reviewed together before the channel is returned to service.

PRODUCT-PAGE TECHNICAL QUESTIONS

What function does Westinghouse 5X00106G01 perform?	It interfaces eight isolated 4-20 mA HART current loops to the Ovation controller while retaining both analog measurement and digital device communication.
How many channels are associated with Westinghouse 5X00106G01?	The documented configuration provides eight isolated input channels.
Which signal path is used by Westinghouse 5X00106G01?	It is used for 4-20 mA current loop with HART communication within the specified subsystem.

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.

Installed-base maintenance

Restores the documented hart analog input electronics module position without changing the approved system architecture.

Loop or channel service

Supports verification of 4-20 mA current loop with HART communication at the assigned control-system channel.

Planned replacement

Provides an exact-identity replacement path when 5X00109G01 HART high-performance analog-input personality module and the field interface have been confirmed.

Commissioning support

Allows the responsible engineer to prove wiring, configuration, status and response for eight isolated input channels.

APPLICATION VERIFICATION MAP

Installed-base maintenance	Confirm the documented system position and the required operating function.
Loop or channel 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 support	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 signal path is used by Westinghouse 5X00106G01?	It is used for 4-20 mA current loop with HART communication within the specified subsystem.
Which companion hardware must be checked for Westinghouse 5X00106G01?	Confirm 5X00109G01 HART high-performance analog-input personality module and the project-specific base or terminal arrangement.
What technical values should be verified before installing Westinghouse 5X00106G01?	Verify 8 galvanically isolated analog inputs; also confirm 4-20 ma and every applicable range or wiring selection.

Product precautions and questions

EIGHT MODEL-SPECIFIC PRECAUTIONS

01	Match the complete 5X00106G01 marking to the work order and installed position before removal.
02	Confirm 5X00109G01 HART high-performance analog-input personality module before making or breaking any field connection.
03	Keep the assigned 4-20 mA current loop with HART communication 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 eight isolated input channels and record the acceptance result before release.

FREQUENTLY ASKED TECHNICAL QUESTIONS

What function does Westinghouse 5X00106G01 perform?	It interfaces eight isolated 4-20 mA HART current loops to the Ovation controller while retaining both analog measurement and digital device communication.
How many channels are associated with Westinghouse 5X00106G01?	The documented configuration provides eight isolated input channels.
Which signal path is used by Westinghouse 5X00106G01?	It is used for 4-20 mA current loop with HART communication within the specified subsystem.
Which companion hardware must be checked for Westinghouse 5X00106G01?	Confirm 5X00109G01 HART high-performance analog-input personality module and the project-specific base or terminal arrangement.

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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

What technical values should be verified before installing Westinghouse 5X00106G01?	Verify 8 galvanically isolated analog inputs; also confirm 4-20 ma and every applicable range or wiring selection.
What connection details should be recorded for Westinghouse 5X00106G01?	Record terminal identifiers, polarity, common, shield termination, connector keying and the assigned channel before disconnection.
Which diagnostics should be reviewed when commissioning Westinghouse 5X00106G01?	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 Westinghouse 5X00106G01 without an engineering check?	No. Match the complete identifier, companion hardware, signal range, wiring and controlled project configuration before substitution.

MANUFACTURER EVIDENCE RECORD

Manufacturer source	Emerson Process Management, Ovation Interim Publication Update IPU-237, HART High Performance Analog Input Module, March 2003.
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

Westinghouse 1C31116G01	Related product reference. Review the complete ordering string before selection.
Westinghouse 1C31129G03	Related product reference. Compare the required interface and system position.
Westinghouse 1C31150G01	Related product reference. Confirm the execution independently for the intended task.

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