Westinghouse 5X00106G01

Installation & Commissioning Guide

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 ROLE AND VERIFIED FEATURES

Feature 1

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

Feature 2

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

Feature 3

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

Feature 4

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

VERIFIED DATA 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

SYSTEM RELATIONSHIP

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

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Pre-installation readiness

READINESS GATE

Identity

Compare the complete marking with the approved work order and installed record.

System match

Confirm the receiving channel, mating components and controlled configuration.

Physical condition

Inspect mounting surfaces, connectors, terminals, cable and support hardware.

Work controls

Apply authorized isolation, bypass, access and restoration procedures.

TECHNICAL PROFILE FOR THE WORK

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

IMPORTANT NOTICE

Resolve every unmatched interface, configuration or receiving-system condition before removal or installation.

SOURCE AND WORK CONTROLS

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.

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Installation sequence

CONTROLLED WORK STEPS

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.

CONNECTION RECORD

As found	Photograph and label every connection and installed orientation before removal.
Mechanical	Record mounting position, support, clearance and connector engagement.
Electrical	Record polarity, common, shield, channel assignment and cable route.
Configuration	Preserve approved settings, scaling, alarm logic and acceptance limits.
As left	Record the final physical condition and any controlled deviation.

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

WORK HOLD POINTS

Before removal	Identity, position, wiring, orientation and controlled settings recorded.
Before connection	Mating interfaces, condition and routing reviewed.
Before power-up	Mechanical work, wiring, shielding and configuration independently checked.
Before release	Static value, dynamic response and protection behavior accepted.

Commissioning and functional proof

COMMISSIONING SEQUENCE

Initial state

Observe status at power-up and check for unexpected fault or alarm indication.

Static value

Verify the expected bias, gap, loop, contact or channel value for the application.

Dynamic response

Apply the approved machine or test stimulus and confirm response and scaling.

Protection path

Verify the configured alarm, relay, data or receiving-system behavior.

APPLICATION-SPECIFIC EVIDENCE

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.

ACCEPTANCE RECORD

Identity	Complete marking and final installed position recorded.
Physical inspection	Mounting, connectors, terminals and routing checked.
Channel status	Expected status and configured measurement confirmed.
Functional test	Required output or protection response demonstrated.
Restoration	Bypasses removed and operating state approved.

COMMISSIONING 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.

Release record and technical references

CLOSEOUT 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.
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.

RELATED MODELS FOR INSTALLATION PLANNING

Foxboro AD916AE FBM203	Installation-planning reference. Review the complete ordering string before selection.
Westinghouse 1C31116G01	Installation-planning reference. Compare the required interface and system position.
Westinghouse 1C31129G03	Installation-planning reference. Confirm the execution independently for the intended task.

MANUFACTURER SOURCE AND FINAL CONTROL

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.

IMPORTANT NOTICE	Release the equipment only after the responsible site authority accepts the recorded result.

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