WESTINGHOUSE 5X00109G02

HART Input Personality Module

WESTINGHOUSE 5X00109G02 is an eight-channel personality module for Ovation high-performance 4-20 mA HART analog inputs, with per-channel power-selection jumpers and active current limiting in two-wire mode.

Job objective

Replace, install or verify the exact unit while preserving unrelated wiring, configuration, dimensions, weight and stored product data.

Safe-work boundary

Identify Match the complete model and every suffix to the physical unit.	**Isolate** Apply the plant-approved electrical, process and stored-energy isolation.
Preserve Back up configuration and photograph all connections and settings.	**Control** Use ESD protection and revision-controlled documentation.

Product-specific hazards and controls

1 De-energize auxiliary loop power and verify all eight channels before handling WESTINGHOUSE 5X00109G02.	**2** Confirm the complete G02 identity and the paired 5X00106 electronics module before exchange.
3 Record every channel jumper before removal; each jumper determines field-powered or local-powered operation.	**4** Check the Ovation release level and OVA331063 patch requirement before enabling the G02 subsystem.

Required evidence before work

Nameplate photo, installed-position record, connection map, configuration or jumper record, fault history and approved acceptance plan.

Readiness and interface checklist

Exact identity	WESTINGHOUSE 5X00109G02 matches the work order and physical unit
Installed position	Rack, slot, panel and functional assignment recorded
Configuration	Project data, jumpers, settings or calibration state captured
Connections	Every cable, terminal, shield and polarity labeled
Condition	Board, housing, connectors and packaging inspected
Test plan	Expected states, safe response and acceptance evidence agreed

Interface preparation

Field-loop boundary	Eight 4-20 mA/HART transmitter circuits
Jumper boundary	Individual selection of locally powered or field-powered operation
Electronics interface	5X00106 high-performance HART input electronics
Software boundary	Ovation release and patch level checked before configuration

Pre-job evidence review

H1 Eight fused HART input channels	**H2** Per-channel power-source jumpers
H3 Active current limiting in two-wire mode	**H4** 4-20 mA high-performance input subsystem

03 / INSTALLATION SEQUENCE

Controlled replacement workflow

1	Confirm isolation and absence of hazardous energy
2	Compare removed and replacement identities and revisions
3	Photograph, label and verify all connections and settings
4	Remove the existing assembly using ESD-safe handling
5	Inspect mounting, connectors, grounding, ventilation and surrounding hardware
6	Install the exact replacement without forcing connections
7	Restore cables, jumpers and settings from the controlled record
8	Complete final visual, continuity and polarity checks before energization

STOP CONDITIONS

Identity

Stop if the complete model or revision does not match.

Connection

Stop if connector orientation, polarity or terminal mapping is unresolved.

Configuration

Stop if the as-found jumper, project or adjustment record is missing.

System

Stop if grounding, cooling or the safe-state assignment is uncertain.

Staged return to service

Stage 1	Visual inspection, isolation release and controlled power-ready state
Stage 2	Apply power under observation and stop on abnormal indicators, heat or sound
Stage 3	Confirm module recognition, status indications and surrounding-system health
Stage 4	Verify every affected connection, signal or relay path
Stage 5	Exercise the documented function and configured safe response
Stage 6	Archive measurements, settings, results and as-left configuration

Product-specific acceptance focus

5

Replace a channel fuse only with the specified type and only after locating the loop fault that opened it.

6

Keep shielded I/O cabling and auxiliary-power routing consistent with the approved cabinet design.

7

Verify polarity and current-loop continuity before applying auxiliary power to two-wire transmitters.

8

Commission each channel with analog-current and HART communication checks, including current-limiting behavior where applicable.

Acceptance evidence

Identity

Photo and record show the exact installed model.

Connections

Terminal, cable and connector checks are complete.

Function

The affected command, indication or supply path has been exercised.

Safe state

Loss-of-power or loss-of-command behavior matches the approved design.

Fault isolation and final record

1	Unexpected state: stop and capture evidence
2	Recheck identity, power boundary, position and connections
3	Compare configuration and revision-controlled records
4	Test the surrounding system before condemning the unit
5	Restore a safe state and document the verified outcome

Apter Power handover record

Model identity	Keep the complete WESTINGHOUSE model code and every suffix in purchasing, installation and acceptance records.
Verification boundary	Confirm the physical nameplate, installed position and revision-controlled project documents before field work.
Apter Power support	Use the contact details and Apter Power website links in this document for product and sourcing support.

Related Apter Power references

Related Apter Power references	Scope note
WESTINGHOUSE 1C31122G01	Portfolio reference only; verify compatibility independently.
WESTINGHOUSE 1C31125G02	Portfolio reference only; verify compatibility independently.
WESTINGHOUSE 1C31129G03	Portfolio reference only; verify compatibility independently.

	Apter Power technical support sales13@apterpower.com +86 180 3023 5313 www.apterpower.com	Model record WESTINGHOUSE 5X00109G02 HART Input Personality Module Verify the complete nameplate before installation.