WESTINGHOUSE 5X00109G01

HART Input Personality Module

WESTINGHOUSE 5X00109G01 is an eight-channel Ovation HART high-performance analog-input personality module with fused inputs and per-channel power-selection jumpers.

01	02	03	04
Eight fused HART channels	4-20 mA high-performance input	Per-channel power-selection jumpers	5X00106 electronics pairing

System position

HART transmitter	5X00109G01 personality module	5X00106 input electronics	Ovation analog and HART data

Product and release scope

Exact identity	Engineering use	Verification boundary	Acceptance
WESTINGHOUSE 5X00109G01 is retained without shortening its suffix.	WESTINGHOUSE 5X00109G01 routes eight HART current loops while preserving separate channel fusing and jumper selection. Unlike the G02 revision, the documented G01 description does not add active current limiting in two-wire mode.	Only exact-model or explicitly applicable family facts are populated.	Connections, configuration, function and safe response require recorded proof.

02 / CAPABILITY AND INTERFACE MAP

Verified technical matrix

Product class	HART high-performance analog-input personality module
Channel count	8
Signal range	4-20 mA
Input protection	One fuse per channel

Channel configuration	Field powered or locally powered by two jumpers per channel
Paired electronics	5X00106G01 or 5X00106G02
Subsystem resolution	16 bit
Cable	Single twisted pair with overall shield

Interface architecture

Field-loop boundary	Jumper boundary	Electronics interface	Controller boundary
Eight HART-capable 4-20 mA transmitter circuits	Two accessible jumpers select the power arrangement for each channel	5X00106G01 or reduced-emission 5X00106G02	Analog values and HART messaging transferred through Ovation

Control path

HART transmitter	5X00109G01 personality module	5X00106 input electronics	Ovation analog and HART data

Technical service focus

H1	H2	H3	H4
Eight fused HART channels	4-20 mA high-performance input	Per-channel power-selection jumpers	5X00106 electronics pairing

Use cases with controlled scope

Smart-transmitter inputs	Mixed power arrangements	Loop protection	HART troubleshooting
Connects eight HART-capable current loops to Ovation.	Allows each channel to follow its installed local- or field-powered design.	Places an individual fuse at every channel interface.	Supports separate current, fuse, jumper and digital-communication checks.

INTEGRATION CHECKPOINTS

Identity	Host system	Configuration	Acceptance
WESTINGHOUSE 5X00109G01 remains complete in purchasing, drawings and labels.	Installed position and surrounding hardware are verified before exchange.	Project data, jumpers, wiring and settings are recorded as applicable.	Functional and safe-state evidence is captured before release.

Installation decision points

1	2	3	4
Remove auxiliary loop power and verify every channel before handling WESTINGHOUSE 5X00109G01.	Confirm the complete G01 identity and its installed 5X00106 electronics module.	Record both jumpers on every channel before removing the personality module.	Keep paired jumpers together in either the field-powered or locally powered position.

System relationship

HART transmitter	5X00109G01 personality module	5X00106 input electronics	Ovation analog and HART data

FAQ decision matrix

Engineering decision	Controlled response
What is the input-channel capacity of WESTINGHOUSE 5X00109G01?	It provides eight fused HART analog-input channels.
Which current range belongs to WESTINGHOUSE 5X00109G01?	The documented subsystem range is 4-20 mA.
How is channel power selected on WESTINGHOUSE 5X00109G01?	Two user-accessible jumpers per channel select field-powered or locally powered operation.
Which electronics modules pair with WESTINGHOUSE 5X00109G01?	The documented pairings are 5X00106G01 and 5X00106G02.

Eight release precautions

1 Remove auxiliary loop power and verify every channel before handling WESTINGHOUSE 5X00109G01.	**2** Confirm the complete G01 identity and its installed 5X00106 electronics module.	**3** Record both jumpers on every channel before removing the personality module.	**4** Keep paired jumpers together in either the field-powered or locally powered position.
5 Do not treat G01 as the G02 current-limited revision.	**6** Maintain shielded twisted-pair routing and the approved shield termination.	**7** Correct the loop fault before replacing any channel fuse.	**8** Commission analog accuracy and HART communication independently on every used channel.

Product verification and contact

Evidence applicability

Evidence record	Applicable scope
Emerson PWS_010195 exact-model product document	Supports only the exact-model or explicitly applicable family facts used in this document.
Ovation I/O Reference Manual OW350_R1150, HART high-performance analog-input section	Supports only the exact-model or explicitly applicable family facts used in this document.

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 5X00109G01 HART Input Personality Module Verify the complete nameplate before installation.