WESTINGHOUSE 5X00059G01

HART Input Personality Module

WESTINGHOUSE 5X00059G01 is an eight-channel Ovation HART analog-input personality module for 4-20 mA loop-powered or active-source transmitters.

01	02	03	04
Eight HART analog-input channels	4-20 mA current-loop range	Two-wire and four-wire transmitter support	5X00058G01 electronics pairing

System position

HART field transmitter	5X00059G01 personality module	5X00058G01 electronics	Ovation analog and HART data

Product and release scope

Exact identity	Engineering use	Verification boundary	Acceptance
WESTINGHOUSE 5X00059G01 is retained without shortening its suffix.	WESTINGHOUSE 5X00059G01 routes eight HART current loops into the Ovation analog-input electronics while preserving HART digital communication on the 4-20 mA signal. Channel power arrangement and fuse status must be verified individually.	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 analog-input personality module
Channel count	8
Analog range	4-20 mA
Field devices	HART transmitters
Power arrangements	2-wire loop powered; 4-wire active source

Paired electronics	5X00058G01
Channel fuses	0.063 A, 125 V
Auxiliary fuse	0.5 A, 125 V on applicable later revision
Certification	CE-marked module configuration

Interface architecture

Field-loop boundary	Protection boundary	Electronics interface	Controller interface
Eight 4-20 mA transmitter circuits	Channel fuses and applicable auxiliary-power fuse	5X00058G01 analog and HART processing	Process variable and HART data delivered through the Ovation I/O bus

Control path

HART field transmitter	5X00059G01 personality module	5X00058G01 electronics	Ovation analog and HART data

Technical service focus

H1	H2	H3	H4
Eight HART analog-input channels	4-20 mA current-loop range	Two-wire and four-wire transmitter support	5X00058G01 electronics pairing

Use cases with controlled scope

HART transmitter inputs

Collects analog process values and digital device data from eight loops.

Mixed two-wire and four-wire loops

Supports the documented loop-powered and active-source arrangements.

Legacy HART input replacement

Restores an existing 5X00059G01 field-interface position.

Loop fault isolation

Separates field power, fuse, current signal, HART communication and controller-reading checks.

INTEGRATION CHECKPOINTS

Identity

WESTINGHOUSE 5X00059G01 remains complete in purchasing, drawings and labels.

Host system

Installed position and surrounding hardware are verified before exchange.

Configuration

Project data, jumpers, wiring and settings are recorded as applicable.

Acceptance

Functional and safe-state evidence is captured before release.

Installation decision points

1

Remove auxiliary loop power and confirm every channel is de-energized before handling WESTINGHOUSE 5X00059G01.

2

Verify the G01 identity and 5X00058G01 electronics pairing before replacement.

3

Record whether each channel is two-wire loop powered or four-wire active source.

4

Use only the documented fuse ratings and investigate the field-loop fault before fuse replacement.

System relationship

HART field transmitter	5X00059G01 personality module	5X00058G01 electronics	Ovation analog and HART data

FAQ decision matrix

Engineering decision	Controlled response
How many inputs does WESTINGHOUSE 5X00059G01 provide?	It provides eight HART analog-input channels.
Which current range is used by WESTINGHOUSE 5X00059G01?	The documented input range is 4-20 mA.
Which transmitters can connect to WESTINGHOUSE 5X00059G01?	It supports two-wire loop-powered transmitters and four-wire active current sources.
Which electronics module pairs with WESTINGHOUSE 5X00059G01?	The documented electronics module is 5X00058G01.

Eight release precautions

1 Remove auxiliary loop power and confirm every channel is de-energized before handling WESTINGHOUSE 5X00059G01.	**2** Verify the G01 identity and 5X00058G01 electronics pairing before replacement.	**3** Record whether each channel is two-wire loop powered or four-wire active source.	**4** Use only the documented fuse ratings and investigate the field-loop fault before fuse replacement.
5 Maintain shielded cable routing and the existing single-point shield termination.	**6** Check polarity, loop resistance and transmitter supply before applying power.	**7** Commission analog accuracy and HART communication independently on every used channel.	**8** Prove configured open-loop, underrange and overrange alarms before returning the subsystem to service.

Product verification and contact

Evidence applicability

Evidence record	Applicable scope
Ovation I/O Reference Manual R3-1150, HART analog-input subsystem and wiring pages	Supports only the exact-model or explicitly applicable family facts used in this document.
Ovation HART input module combination and fuse information	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 5X00121G01	Portfolio reference only; verify compatibility independently.
WESTINGHOUSE 5X00167G01	Portfolio reference only; verify compatibility independently.
WESTINGHOUSE 5X00226G04	Portfolio reference only; verify compatibility independently.

	Apter Power technical support sales13@apterpower.com +86 180 3023 5313 www.apterpower.com	Model record WESTINGHOUSE 5X00059G01 HART Input Personality Module Verify the complete nameplate before installation.