

WESTINGHOUSE 1X00188H01

HART Output Cavity Insert

WESTINGHOUSE 1X00188H01 is a molded cavity insert for the four-channel Ovation high-performance HART analog-output subsystem using 4-20 mA signals.

IDENTITY AND FUNCTION SNAPSHOT

H1 Molded personality-position insert	H2 Four 4-20 mA HART output channels
H3 5X00167G01 electronics pairing	H4 High-performance 16-bit output subsystem

Installed-system position

1	Ovation output command
2	5X00167G01 HART electronics
3	1X00188H01 wiring insert
4	Four field current loops

Exact-model release boundary

Identity Keep WESTINGHOUSE 1X00188H01 complete in drawings, labels and acceptance records.	Evidence Use only the exact-model and explicitly applicable family facts documented here.
Configuration Record cables, jumpers, settings and the installed functional position before work.	Acceptance Prove the affected control path before returning the equipment to service.

02 / SYSTEM ROLE AND INTERFACES

Architecture, interfaces and service boundaries

WESTINGHOUSE 1X00188H01 does not perform the analog conversion itself; it identifies and protects the wiring position used by the high-performance HART output electronics. Replacement work must therefore preserve the exact loop assignment and the 5X00167G01 pairing.

CONTROL PATH

1	Ovation output command
2	5X00167G01 HART electronics

3	1X00188H01 wiring insert
4	Four field current loops

Interface architecture

Mechanical boundary	Fits the personality-module position of the Ovation base
Wiring label	Identifies the terminal connections for four field output loops
Electronics pairing	Used with the 5X00167G01 high-performance HART output module
Field boundary	Four isolated 4-20 mA/HART output circuits

Interface acceptance checks

<p>1</p> <p>Place all affected analog outputs in a controlled safe state before handling WESTINGHOUSE 1X00188H01.</p>	<p>2</p> <p>Verify that the installed electronics module is 5X00167G01 and that the complete H01 insert identity matches.</p>
<p>3</p> <p>Photograph the insert label and all four loop assignments before disconnecting field wiring.</p>	<p>4</p> <p>Do not treat the molded insert as an electronics module; keep the associated 5X00167G01 identity in the work record.</p>

Engineering rule

A nearby WESTINGHOUSE family code does not establish interchangeability with 1X00188H01; use the physical nameplate and controlled site records.

ENGINEERING SUMMARY / MODEL-SPECIFIC CHECKPOINTS	
<ul style="list-style-type: none">● Mechanical boundary: Fits the personality-module position of the Ovation base	<ul style="list-style-type: none">● Wiring label: Identifies the terminal connections for four field output loops
<ul style="list-style-type: none">● Electronics pairing: Used with the 5X00167G01 high-performance HART output module	<ul style="list-style-type: none">● Field boundary: Four isolated 4-20 mA/HART output circuits

Engineering matrix and component map

Every populated row is a technical value supported by the reviewed exact-model record or an explicitly applicable WESTINGHOUSE family source.

Product class	Molded cavity insert
Subsystem	HART high-performance analog output
Channel count	4
Signal range	4-20 mA
Output conversion	16 bit
Channel isolation	Galvanically isolated outputs
Paired electronics	5X00167G01
Installed position	Personality-module cavity

CHANGE CONTROL

Record Capture the full model, revision, slot, connectors and as-found condition.	Compare Match every populated technical row to the replacement and project record.
Protect Apply controlled isolation, stored-energy and ESD practices.	Prove Complete the product-specific functional and safe-state checks.

Source applicability

Evidence record	Applicable scope
Ovation I/O Reference Manual OW350_R1150, HART high-performance analog-output subsystem table	Supports only the exact-model or explicitly applicable family facts used in this document.
Ovation standard I/O cavity-insert and wiring-label description	Supports only the exact-model or explicitly applicable family facts used in this document.

Fault isolation and controlled return

1	Capture the fault, indicators and surrounding-system state
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2	Verify exact identity, power boundary, cabling and installed position
3	Test WESTINGHOUSE 1X00188H01 against the approved service procedure
4	Correct the isolated cause and restore the recorded configuration
5	Commission the affected path and archive measured evidence

Eight product-specific precautions

1 Place all affected analog outputs in a controlled safe state before handling WESTINGHOUSE 1X00188H01.	2 Verify that the installed electronics module is 5X00167G01 and that the complete H01 insert identity matches.
3 Photograph the insert label and all four loop assignments before disconnecting field wiring.	4 Do not treat the molded insert as an electronics module; keep the associated 5X00167G01 identity in the work record.
5 Preserve channel polarity, shield termination and segregation from switching-power conductors.	6 Inspect the molded guides, label, connector opening and base terminals for damage before installation.
7 Reconnect one loop at a time and verify current direction before enabling the output command.	8 Commission each used channel with commanded 4-20 mA points and confirm HART communication where the field device uses it.

05 / ENGINEERING FAQ AND SUPPORT

Model-specific engineering decisions

Engineering decision	Controlled response
What is WESTINGHOUSE 1X00188H01?	It is the molded cavity insert used in the personality-module position of a high-performance HART analog-output subsystem.
How many loops are associated with WESTINGHOUSE 1X00188H01?	The applicable subsystem has four analog-output channels.
Which output range applies to WESTINGHOUSE 1X00188H01?	The field loops use 4-20 mA signals.
Which electronics module pairs with WESTINGHOUSE 1X00188H01?	The documented pairing is 5X00167G01.
Does WESTINGHOUSE 1X00188H01 perform digital-to-analog conversion?	No. The molded insert occupies the wiring-label position; the paired electronics module performs the output conversion.
What must be recorded before removing WESTINGHOUSE 1X00188H01?	Record the complete insert and electronics identities, four loop assignments, polarities, shields and safe output states.

Engineering decision	Controlled response
How should a field loop be checked after installing WESTINGHOUSE 1X00188H01?	Command representative current points and verify measured loop current, field-device response and HART communication when used.
Can WESTINGHOUSE 1X00188H01 be replaced by any cavity insert?	No. The insert must match the documented four-channel HART output subsystem and the installed 5X00167G01 electronics.

Related Apter Power references

Related Apter Power references	Scope note
WESTINGHOUSE 1C31192G01	Portfolio reference only; verify compatibility independently.
WESTINGHOUSE 1C31223G01	Portfolio reference only; verify compatibility independently.
WESTINGHOUSE 1C31238H01	Portfolio reference only; verify compatibility independently.

	Apter Power technical support sales13@apterpower.com +86 180 3023 5313 www.apterpower.com	Model record WESTINGHOUSE 1X00188H01 HART Output Cavity Insert Verify the complete nameplate before installation.
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ENGINEERING SUMMARY / MODEL-SPECIFIC CHECKPOINTS	
● Exact model: WESTINGHOUSE 1X00188H01	● Retain nameplate, wiring and as-left acceptance evidence.
● Use only the Apter Power links contained in this document.	● Verify compatibility independently before installation.