

WESTINGHOUSE 1C31197G05

Valve Positioner Personality Module

WESTINGHOUSE 1C31197G05 is an Ovation valve-positioner personality module for a fused 24 VDC LVDT feedback circuit rated at 50 mA.

01 Valve-positioner personality module	02 Fused 24 VDC LVDT interface	03 50 mA LVDT rating	04 1C31194G01 or 1C31194G02 electronics pairing
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System position

Position demand	1C31194 electronics	1C31197G05 LVDT and servo interface	Electro-hydraulic valve actuator
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Product and release scope

Exact identity WESTINGHOUSE 1C31197G05 is retained without shortening its suffix.	Engineering use WESTINGHOUSE 1C31197G05 identifies the DC-LVDT personality option within the Ovation valve-positioner family. Its field wiring, feedback polarity and electronics pairing must remain tied to the installed actuator and control strategy.	Verification boundary Only exact-model or explicitly applicable family facts are populated.	Acceptance Connections, configuration, function and safe response require recorded proof.
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Verified technical matrix

Product class	Valve-positioner personality module
Platform	Ovation I/O
Feedback type	DC LVDT
LVDT excitation	24 VDC fused

LVDT current	50 mA
Paired electronics	1C31194G01 or 1C31194G02
Controlled device	Electro-hydraulic servo actuator
Local interface	SLIM operator interface supported

Interface architecture

Feedback boundary	Servo boundary	Electronics pairing	Local interface
DC LVDT excitation and position-feedback wiring	Electro-hydraulic actuator command interface through the valve-positioner electronics	1C31194G01 or 1C31194G02 valve-positioner module	Optional SLIM station for local monitoring and control

Control path

Position demand	1C31194 electronics	1C31197G05 LVDT and servo interface	Electro-hydraulic valve actuator
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Technical service focus

H1	H2	H3	H4
Valve-positioner personality module	Fused 24 VDC LVDT interface	50 mA LVDT rating	1C31194G01 or 1C31194G02 electronics pairing

Use cases with controlled scope

Governor-valve positioning Interfaces the installed electro-hydraulic actuator and DC LVDT feedback.	Interceptor-valve control Supports the documented valve-positioner loop when the complete subsystem matches.	Extraction or bypass valve service Provides the G05 feedback personality for an approved Ovation valve application.	Position-loop maintenance Supports controlled checks of demand, LVDT feedback, servo response and local indication.
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INTEGRATION CHECKPOINTS

Identity WESTINGHOUSE 1C31197G05 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.
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Installation decision points

1 Hydraulically isolate the actuator and establish the approved valve safe state before handling WESTINGHOUSE 1C31197G05.	2 Verify the complete G05 identity and the paired 1C31194G01 or G02 electronics module.	3 Record LVDT wiring, servo-coil wiring, polarity, shields and all position-loop settings before removal.	4 Confirm the installed feedback device is the documented fused 24 VDC, 50 mA DC LVDT arrangement.
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System relationship

Position demand	1C31194 electronics	1C31197G05 LVDT and servo interface	Electro-hydraulic valve actuator
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FAQ decision matrix

Engineering decision	Controlled response
What is the function of WESTINGHOUSE 1C31197G05?	It is the personality module for an Ovation electro-hydraulic valve-positioner subsystem.
Which feedback device is associated with WESTINGHOUSE 1C31197G05?	The G05 option uses a fused 24 VDC LVDT feedback circuit.
What current rating applies to the WESTINGHOUSE 1C31197G05 LVDT interface?	The documented LVDT current is 50 mA.
Which electronics modules pair with WESTINGHOUSE 1C31197G05?	The subsystem table pairs it with 1C31194G01 or 1C31194G02.

Eight release precautions

1 Hydraulically isolate the actuator and establish the approved valve safe state before handling WESTINGHOUSE 1C31197G05.	2 Verify the complete G05 identity and the paired 1C31194G01 or G02 electronics module.	3 Record LVDT wiring, servo-coil wiring, polarity, shields and all position-loop settings before removal.	4 Confirm the installed feedback device is the documented fused 24 VDC, 50 mA DC LVDT arrangement.
5 Do not disturb mechanical valve linkage or LVDT alignment without a controlled calibration procedure.	6 Inspect the fuse and field wiring for a root cause before replacing a fuse or reapplying excitation.	7 Commission at controlled travel limits while comparing demand, measured feedback and actual valve position.	8 Prove seating, retreat, local/remote control and the configured fault response before returning the valve to automatic service.

Product verification and contact

Evidence applicability

Evidence record	Applicable scope
Emerson Ovation Spare Parts document PWS_010046	Supports only the exact-model or explicitly applicable family facts used in this document.
Ovation I/O Reference Manual OW350_R1150, valve-positioner subsystem combinations	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 1P00028G01	Portfolio reference only; verify compatibility independently.
WESTINGHOUSE 5X00106G01	Portfolio reference only; verify compatibility independently.
WESTINGHOUSE 5X00119G01	Portfolio reference only; verify compatibility independently.

	Apter Power technical support sales13@apterpower.com +86 180 3023 5313 www.apterpower.com	Model record WESTINGHOUSE 1C31197G05 Valve Positioner Personality Module Verify the complete nameplate before installation.
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