

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.

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 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.

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 1C31197G05 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

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

Pre-job evidence review

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

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 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.

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 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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