

WESTINGHOUSE 1C31142G01

Contact Input Module

WESTINGHOUSE 1C31142G01 is a 16-channel Ovation contact input electronics module using a 48 VDC on-card wetting supply for single-ended field contacts.

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 Isolate the on-card wetting supply and external circuits before handling WESTINGHOUSE 1C31142G01.	2 Verify the G01 electronics module and 1C31110G03 personality module pairing before replacement.
3 Record all sixteen channel assignments and the common-return wiring before disconnecting field conductors.	4 Confirm that field devices are dry contacts suitable for the module's 48 VDC current-limited wetting circuit.

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 1C31142G01 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

Contact boundary	Sixteen field contacts referenced to the documented common return
Wetting boundary	Current-limited on-card 48 VDC auxiliary supply
Personality interface	1C31110G03 field-termination and signal-routing stage
Controller interface	Debounced contact states transferred to the Ovation I/O bus

Pre-job evidence review

H1 Sixteen contact-input channels	H2 48 VDC on-card wetting supply
H3 Single-ended common-return architecture	H4 1C31110G03 personality-module 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 parallel an external source onto the on-card wetting supply without an approved engineering design.	6 Inspect the base, personality-module connectors and terminal labeling before inserting the replacement.
7 Test both open and closed states for each used channel and observe the documented debounce response.	8 Prove associated alarms, interlocks and safe-state logic before releasing the input module to operation.

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 1C31132G01	Portfolio reference only; verify compatibility independently.
WESTINGHOUSE 1C31147G01	Portfolio reference only; verify compatibility independently.
WESTINGHOUSE 1C31150G01	Portfolio reference only; verify compatibility independently.

	Apter Power technical support sales13@apterpower.com +86 180 3023 5313 www.apterpower.com	Model record WESTINGHOUSE 1C31142G01 Contact Input Module Verify the complete nameplate before installation.
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