WESTINGHOUSE 1C31233G04

Sequence of Events Input Module

WESTINGHOUSE 1C31233G04 is a compact 16-channel Ovation sequence-of-events contact input module with a 48 VDC on-card auxiliary supply.

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 auxiliary supply and all connected contact circuits before handling WESTINGHOUSE 1C31233G04.	**2** Match the complete G04 identity and the 1C31238H01 cavity insert before installation.
3 Record all sixteen point assignments, normal states and event priorities before removing the module.	**4** Preserve the field-contact common and wetting-supply arrangement shown on the installed wiring insert.

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 1C31233G04 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-contact circuits using the installed cavity-insert wiring label
Event detection	State transitions qualified by the compact SOE input timing
Buffer interface	Accepted transitions written to the module event buffers
Controller interface	Time-ordered event records transferred to the Ovation system

Pre-job evidence review

H1 Sixteen sequence-of-events inputs	**H2** 48 VDC on-card auxiliary supply
H3 Compact Ovation module format	**H4** 1C31238H01 cavity insert

03 / INSTALLATION SEQUENCE

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

Confirm controller time synchronization and event-buffer readiness before injecting test transitions.

6

Do not use a slow or bouncing test contact when validating the documented millisecond transition thresholds.

7

Check event-buffer overflow and readout behavior after channel testing, not only the live input state.

8

Release the module only after timestamps, event order, alarms and protective logic match the approved sequence test.

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 1C31166G02	Portfolio reference only; verify compatibility independently.
WESTINGHOUSE 1C31169G02	Portfolio reference only; verify compatibility independently.
WESTINGHOUSE 1C31189G01	Portfolio reference only; verify compatibility independently.

	Apter Power technical support sales13@apterpower.com +86 180 3023 5313 www.apterpower.com	Model record WESTINGHOUSE 1C31233G04 Sequence of Events Input Module Verify the complete nameplate before installation.