Westinghouse 1C31223G01

Installation & Commissioning Guide

Westinghouse 1C31223G01 serves as a relay output base assembly in the Ovation I/O subsystem. It interfaces high AC or DC field switching through Form C contacts with 1C31219G01 relay-output electronics module.

PRODUCT ROLE AND VERIFIED FEATURES

Feature 1

Provides sixteen relay positions for the documented relay output base assembly function.

Feature 2

Handles high AC or DC field switching through Form C contacts through the specified Ovation I/O subsystem.

Feature 3

Works with 1C31219G01 relay-output electronics module.

Feature 4

The dedicated base supplies the mechanical relay and terminal-block interface for Ovation relay outputs.

VERIFIED DATA SNAPSHOT

Relay positions	16
Relay style	G2R, Form C
Electronics module	1C31219G01
Field interface	Relay contacts brought to terminal blocks

SYSTEM RELATIONSHIP

Input condition → **Module logic** → **Relay contact** → **Field circuit**

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Pre-installation readiness

READINESS GATE

Identity

Compare the complete marking with the approved work order and installed record.

System match

Confirm the receiving channel, mating components and controlled configuration.

Physical condition

Inspect mounting surfaces, connectors, terminals, cable and support hardware.

Work controls

Apply authorized isolation, bypass, access and restoration procedures.

TECHNICAL PROFILE FOR THE WORK

Relay positions

16

Relay style

G2R, Form C

Electronics module

1C31219G01

Field interface

Relay contacts brought to terminal blocks

Module arrangement

Relay base; no standard personality module

IMPORTANT NOTICE

Resolve every unmatched interface, configuration or receiving-system condition before removal or installation.

SOURCE AND WORK CONTROLS

Manufacturer source	Emerson Process Management, Ovation I/O Reference Manual R3-1150 Rev 3, Section 18, February 2003.
Evidence boundary	Technical statements are limited to the identified product or applicable manufacturer family.
Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

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Installation sequence

CONTROLLED WORK STEPS

01	Match the complete 1C31223G01 marking to the work order and installed position before removal.
02	Confirm 1C31219G01 relay-output electronics module before making or breaking any field connection.
03	Keep the assigned high AC or DC field switching through Form C contacts within the documented subsystem and range.
04	Record terminal designations, polarity, common and shield treatment before disconnecting conductors.
05	Inspect module seating, connector keying, terminal condition and strain relief before power is restored.
06	Restore the controlled channel configuration, range selection and alarm or timeout behavior after installation.
07	Check local indicators and controller diagnostics for internal, communication or channel faults during commissioning.
08	Prove the intended response across sixteen relay positions and record the acceptance result before release.

CONNECTION RECORD

As found	Photograph and label every connection and installed orientation before removal.
Mechanical	Record mounting position, support, clearance and connector engagement.
Electrical	Record polarity, common, shield, channel assignment and cable route.
Configuration	Preserve approved settings, scaling, alarm logic and acceptance limits.
As left	Record the final physical condition and any controlled deviation.

Input condition → **Module logic** → **Relay contact** → **Field circuit**

WORK HOLD POINTS

Before removal	Identity, position, wiring, orientation and controlled settings recorded.
Before connection	Mating interfaces, condition and routing reviewed.
Before power-up	Mechanical work, wiring, shielding and configuration independently checked.
Before release	Static value, dynamic response and protection behavior accepted.

Commissioning and functional proof

COMMISSIONING SEQUENCE

Initial state

Observe status at power-up and check for unexpected fault or alarm indication.

Static value

Verify the expected bias, gap, loop, contact or channel value for the application.

Dynamic response

Apply the approved machine or test stimulus and confirm response and scaling.

Protection path

Verify the configured alarm, relay, data or receiving-system behavior.

APPLICATION-SPECIFIC EVIDENCE

Installed-base maintenance

Restores the documented relay output base assembly position without changing the approved system architecture.

Loop or channel service

Supports verification of high AC or DC field switching through Form C contacts at the assigned control-system channel.

Planned replacement

Provides an exact-identity replacement path when 1C31219G01 relay-output electronics module and the field interface have been confirmed.

Commissioning support

Allows the responsible engineer to prove wiring, configuration, status and response for sixteen relay positions.

ACCEPTANCE RECORD

Identity	Complete marking and final installed position recorded.
Physical inspection	Mounting, connectors, terminals and routing checked.
Channel status	Expected status and configured measurement confirmed.
Functional test	Required output or protection response demonstrated.
Restoration	Bypasses removed and operating state approved.

COMMISSIONING QUESTIONS

What function does Westinghouse 1C31223G01 perform?	It is a 16-position Ovation relay-output base assembly that carries G2R-style Form C relays and exposes their contacts at field terminal blocks.
How many channels are associated with Westinghouse 1C31223G01?	The documented configuration provides sixteen relay positions.

Release record and technical references

CLOSEOUT QUESTIONS

Which signal path is used by Westinghouse 1C31223G01?	It is used for high AC or DC field switching through Form C contacts within the specified subsystem.
Which companion hardware must be checked for Westinghouse 1C31223G01?	Confirm 1C31219G01 relay-output electronics module and the project-specific base or terminal arrangement.
What technical values should be verified before installing Westinghouse 1C31223G01?	Verify 16; also confirm g2r, form c and every applicable range or wiring selection.
What connection details should be recorded for Westinghouse 1C31223G01?	Record terminal identifiers, polarity, common, shield termination, connector keying and the assigned channel before disconnection.
Which diagnostics should be reviewed when commissioning Westinghouse 1C31223G01?	Review the applicable power, communication, internal-fault and channel-status indications, then compare the controller status with the expected field condition.
Can a nearby ordering code replace Westinghouse 1C31223G01 without an engineering check?	No. Match the complete identifier, companion hardware, signal range, wiring and controlled project configuration before substitution.

RELATED MODELS FOR INSTALLATION PLANNING

Westinghouse 1C31150G01	Installation-planning reference. Review the complete ordering string before selection.
Westinghouse 1C31238H01	Installation-planning reference. Compare the required interface and system position.
Westinghouse 5X00121G01	Installation-planning reference. Confirm the execution independently for the intended task.

MANUFACTURER SOURCE AND FINAL CONTROL

Manufacturer source	Emerson Process Management, Ovation I/O Reference Manual R3-1150 Rev 3, Section 18, February 2003.
Evidence boundary	Technical statements are limited to the identified product or applicable manufacturer family.
Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

IMPORTANT NOTICE Release the equipment only after the responsible site authority accepts the recorded result.

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