

Westinghouse 1C31122G01

Installation & Commissioning Guide

Westinghouse 1C31122G01 serves as a digital output electronics module in the Ovation I/O subsystem. It interfaces dc load or relay-panel control with 1C31125G01, 1C31125G02 or 1C31125G03 personality module.

PRODUCT ROLE AND VERIFIED FEATURES

Feature 1

Provides sixteen output channels for the documented digital output electronics module function.

Feature 2

Handles dc load or relay-panel control through the specified Ovation I/O subsystem.

Feature 3

Works with 1C31125G01, 1C31125G02 or 1C31125G03 personality module.

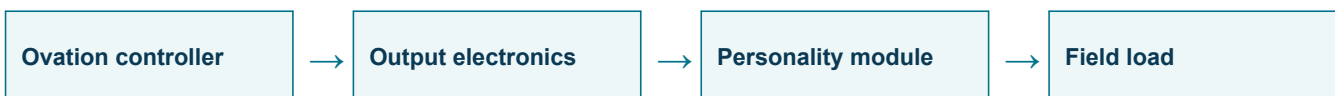
Feature 4

The module can drive direct dc loads or operate through supported Ovation relay-panel arrangements.

VERIFIED DATA SNAPSHOT

Outputs	16 current-sinking channels
Load range	0 to 60 V dc
Channel current	Up to 500 mA per output, subject to total fuse rating
Timeout	Configurable communication timeout

SYSTEM RELATIONSHIP



APTERPOWER SALES TEAM
WhatsApp / Phone: +86 180 3023 5313
Email: sales13@apterpower.com
Scan the approved WhatsApp code for model-specific support.



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

Outputs 16 current-sinking channels	Load range 0 to 60 V dc
Channel current Up to 500 mA per output, subject to total fuse rating	Timeout Configurable communication timeout
Indication Per-output status LEDs	

IMPORTANT NOTICE

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

SOURCE AND WORK CONTROLS

Manufacturer source	Emerson official factory-certified part sheet and Ovation I/O Reference Manual R3-1150 Rev 3, Section 12.
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 1C31122G01 marking to the work order and installed position before removal.
- 02** Confirm 1C31125G01, 1C31125G02 or 1C31125G03 personality module before making or breaking any field connection.
- 03** Keep the assigned dc load or relay-panel control 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 output channels 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.



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 digital output electronics module position without changing the approved system architecture.	Loop or channel service Supports verification of dc load or relay-panel control at the assigned control-system channel.
Planned replacement Provides an exact-identity replacement path when 1C31125G01, 1C31125G02 or 1C31125G03 personality module and the field interface have been confirmed.	Commissioning support Allows the responsible engineer to prove wiring, configuration, status and response for sixteen output channels.

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 1C31122G01 perform?	It provides sixteen current-sinking Ovation digital outputs for switching dc field loads and relay interfaces under controller command.
How many channels are associated with Westinghouse 1C31122G01?	The documented configuration provides sixteen output channels.

Release record and technical references

CLOSEOUT QUESTIONS

Which signal path is used by Westinghouse 1C31122G01?	It is used for dc load or relay-panel control within the specified subsystem.
Which companion hardware must be checked for Westinghouse 1C31122G01?	Confirm 1C31125G01, 1C31125G02 or 1C31125G03 personality module and the project-specific base or terminal arrangement.
What technical values should be verified before installing Westinghouse 1C31122G01?	Verify 16 current-sinking channels; also confirm 0 to 60 v dc and every applicable range or wiring selection.
What connection details should be recorded for Westinghouse 1C31122G01?	Record terminal identifiers, polarity, common, shield termination, connector keying and the assigned channel before disconnection.
Which diagnostics should be reviewed when commissioning Westinghouse 1C31122G01?	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 1C31122G01 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 1C31192G01	Installation-planning reference. Review the complete ordering string before selection.
Westinghouse 5X00119G01	Installation-planning reference. Compare the required interface and system position.
Westinghouse 5X00419G01	Installation-planning reference. Confirm the execution independently for the intended task.

MANUFACTURER SOURCE AND FINAL CONTROL

Manufacturer source	Emerson official factory-certified part sheet and Ovation I/O Reference Manual R3-1150 Rev 3, Section 12.
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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