

Westinghouse 1C31129G03

Complete Product Information

Westinghouse 1C31129G03 generates four isolated Ovation current outputs with diagnostics for continuous process-control signals.

WHAT THIS PRODUCT DOES

Westinghouse 1C31129G03 serves as an analog output electronics module in the Ovation I/O subsystem. It interfaces 0-20 mA or configured 4-20 mA control output with 1C31132G01 analog-output personality module.

Product characteristic 1

Provides four isolated output channels for the documented analog output electronics module function.

Product characteristic 2

Handles 0-20 mA or configured 4-20 mA control output through the specified Ovation I/O subsystem.

Product characteristic 3

Works with 1C31132G01 analog-output personality module.

Product characteristic 4

Optically isolated serial control separates the logic interface from the field-output circuits.

PRODUCT-PAGE TECHNICAL SNAPSHOT

Outputs	4 isolated analog channels
Current range	0-20 mA; 4-20 mA selectable in I/O Builder
Diagnostics	Current-output diagnostics included
Conversion	12-bit serial digital-to-analog converters

IMPORTANT NOTICE

Use 1C31129G03 only with 1C31132G01 analog-output personality module; verify the field interface and controlled configuration before energizing the subsystem.

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Features and technical data

TECHNICAL DATA SHOWN ON THE PRODUCT PAGE

Outputs	4 isolated analog channels
Current range	0-20 mA; 4-20 mA selectable in I/O Builder
Diagnostics	Current-output diagnostics included
Conversion	12-bit serial digital-to-analog converters
Channel update	All four channels updated every 1.5 ms

FEATURE INTERPRETATION

Product identity Provides four isolated output channels for the documented analog output electronics module function.	System role Handles 0-20 mA or configured 4-20 mA control output through the specified Ovation I/O subsystem.
Service context Works with 1C31132G01 analog-output personality module.	Return-to-service focus Optically isolated serial control separates the logic interface from the field-output circuits.

SIGNAL OR CONTROL PATH



The analog output electronics module belongs in the controlled Ovation I/O subsystem and works with 1C31132G01 analog-output personality module. Its field connection, companion hardware and project configuration must be reviewed together before the channel is returned to service.

PRODUCT-PAGE TECHNICAL QUESTIONS

What function does Westinghouse 1C31129G03 perform?	It generates four isolated Ovation current outputs with diagnostics for continuous process-control signals.
How many channels are associated with Westinghouse 1C31129G03?	The documented configuration provides four isolated output channels.
Which signal path is used by Westinghouse 1C31129G03?	It is used for 0-20 mA or configured 4-20 mA control output within the specified subsystem.

Common applications

The application groups below reproduce the model-specific uses presented on the product page and connect each use to a practical verification point.

Installed-base maintenance Restores the documented analog output electronics module position without changing the approved system architecture.	Loop or channel service Supports verification of 0-20 mA or configured 4-20 mA control output at the assigned control-system channel.
Planned replacement Provides an exact-identity replacement path when 1C31132G01 analog-output personality module and the field interface have been confirmed.	Commissioning support Allows the responsible engineer to prove wiring, configuration, status and response for four isolated output channels.

APPLICATION VERIFICATION MAP

Installed-base maintenance	Confirm the documented system position and the required operating function.
Loop or channel service	Compare the restored connection or control path with the approved record.
Planned replacement	Check the physical interface and the retained configuration before startup.
Commissioning support	Record diagnostics and the final controlled response before release.

INFORMATION CARRIED INTO THE WORK RECORD

Identity record Complete marking and assigned system position.	Connection record Connector, conductor and interface arrangement as found.
Configuration record Controlled settings, application data and option state.	Acceptance record Observed status, response and release decision.

IMPORTANT NOTICE

Use the complete product identifier for every application review; a related product link is not evidence of interchangeability.

APPLICATION QUESTIONS

Which signal path is used by Westinghouse 1C31129G03?	It is used for 0-20 mA or configured 4-20 mA control output within the specified subsystem.
Which companion hardware must be checked for Westinghouse 1C31129G03?	Confirm 1C31132G01 analog-output personality module and the project-specific base or terminal arrangement.
What technical values should be verified before installing Westinghouse 1C31129G03?	Verify 4 isolated analog channels; also confirm 0-20 ma; 4-20 ma selectable in i/o builder and every applicable range or wiring selection.

Product precautions and questions

EIGHT MODEL-SPECIFIC PRECAUTIONS

- 01 Match the complete 1C31129G03 marking to the work order and installed position before removal.
- 02 Confirm 1C31132G01 analog-output personality module before making or breaking any field connection.
- 03 Keep the assigned 0-20 mA or configured 4-20 mA control output 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 four isolated output channels and record the acceptance result before release.

FREQUENTLY ASKED TECHNICAL QUESTIONS

What function does Westinghouse 1C31129G03 perform?	It generates four isolated Ovation current outputs with diagnostics for continuous process-control signals.
How many channels are associated with Westinghouse 1C31129G03?	The documented configuration provides four isolated output channels.
Which signal path is used by Westinghouse 1C31129G03?	It is used for 0-20 mA or configured 4-20 mA control output within the specified subsystem.
Which companion hardware must be checked for Westinghouse 1C31129G03?	Confirm 1C31132G01 analog-output personality module and the project-specific base or terminal arrangement.

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RELEASE CHECKLIST

Identity accepted	The complete product marking and assigned system position agree.
Interfaces accepted	Connections, retention and controlled configuration match the recorded condition.
Response accepted	Diagnostics and the intended technical response have been documented.

FAQ, source record and related models

ADDITIONAL TECHNICAL QUESTIONS

What technical values should be verified before installing Westinghouse 1C31129G03?	Verify 4 isolated analog channels; also confirm 0-20 ma; 4-20 ma selectable in i/o builder and every applicable range or wiring selection.
What connection details should be recorded for Westinghouse 1C31129G03?	Record terminal identifiers, polarity, common, shield termination, connector keying and the assigned channel before disconnection.
Which diagnostics should be reviewed when commissioning Westinghouse 1C31129G03?	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 1C31129G03 without an engineering check?	No. Match the complete identifier, companion hardware, signal range, wiring and controlled project configuration before substitution.

MANUFACTURER EVIDENCE RECORD

Manufacturer source	Emerson Process Management, Ovation I/O Reference Manual R3-1150 Rev 3, Section 7, 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.

RELATED MODELS ON APTERPOWER

Westinghouse 5X00300G01	Related product reference. Review the complete ordering string before selection.
Foxboro AD908AC FBM202	Related product reference. Compare the required interface and system position.
Westinghouse 1C31223G01	Related product reference. Confirm the execution independently for the intended task.

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