Westinghouse 1C31147G01

Complete Product Information

Westinghouse 1C31147G01 counts two medium-speed pulse channels for frequency, accumulated-count or pulse-duration functions in the Ovation system.

WHAT THIS PRODUCT DOES

Westinghouse 1C31147G01 serves as a pulse accumulator electronics module in the Ovation I/O subsystem. It interfaces medium-speed pulse and control input with application-matched 1C31150G01-G03 personality module.

Product characteristic 1

Provides two accumulator channels for the documented pulse accumulator electronics module function.

Product characteristic 2

Handles medium-speed pulse and control input through the specified Ovation I/O subsystem.

Product characteristic 3

Works with application-matched 1C31150G01-G03 personality module.

Product characteristic 4

Each channel can use the external count input or the module timebase according to the controlled configuration.

PRODUCT-PAGE TECHNICAL SNAPSHOT

Channels	2 pulse-accumulator channels
Input levels	24/48 V and 5/12 V medium-speed executions
Functions	Frequency, accumulated count or pulse duration
Personality modules	1C31150G01, G02 or G03

IMPORTANT NOTICE Use 1C31147G01 only with application-matched 1C31150G01-G03 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

Channels	2 pulse-accumulator channels
Input levels	24/48 V and 5/12 V medium-speed executions
Functions	Frequency, accumulated count or pulse duration
Personality modules	1C31150G01, G02 or G03
Status	Channel-enable, external-fault and internal-fault indication

FEATURE INTERPRETATION

Product identity

Provides two accumulator channels for the documented pulse accumulator electronics module function.

System role

Handles medium-speed pulse and control input through the specified Ovation I/O subsystem.

Service context

Works with application-matched 1C31150G01-G03 personality module.

Return-to-service focus

Each channel can use the external count input or the module timebase according to the controlled configuration.

SIGNAL OR CONTROL PATH

Pulse source → **Personality module** → **Accumulator module** → **Ovation controller**

The pulse accumulator electronics module belongs in the controlled Ovation I/O subsystem and works with application-matched 1C31150G01-G03 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 1C31147G01 perform?	It counts two medium-speed pulse channels for frequency, accumulated-count or pulse-duration functions in the Ovation system.
How many channels are associated with Westinghouse 1C31147G01?	The documented configuration provides two accumulator channels.
Which signal path is used by Westinghouse 1C31147G01?	It is used for medium-speed pulse and control input 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 pulse accumulator electronics module position without changing the approved system architecture.

Loop or channel service

Supports verification of medium-speed pulse and control input at the assigned control-system channel.

Planned replacement

Provides an exact-identity replacement path when application-matched 1C31150G01-G03 personality module and the field interface have been confirmed.

Commissioning support

Allows the responsible engineer to prove wiring, configuration, status and response for two accumulator 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 1C31147G01?	It is used for medium-speed pulse and control input within the specified subsystem.
Which companion hardware must be checked for Westinghouse 1C31147G01?	Confirm application-matched 1C31150G01-G03 personality module and the project-specific base or terminal arrangement.
What technical values should be verified before installing Westinghouse 1C31147G01?	Verify 2 pulse-accumulator channels; also confirm 24/48 v and 5/12 v medium-speed executions and every applicable range or wiring selection.

Product precautions and questions

EIGHT MODEL-SPECIFIC PRECAUTIONS

01	Match the complete 1C31147G01 marking to the work order and installed position before removal.
02	Confirm application-matched 1C31150G01-G03 personality module before making or breaking any field connection.
03	Keep the assigned medium-speed pulse and control input 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 two accumulator channels and record the acceptance result before release.

FREQUENTLY ASKED TECHNICAL QUESTIONS

What function does Westinghouse 1C31147G01 perform?	It counts two medium-speed pulse channels for frequency, accumulated-count or pulse-duration functions in the Ovation system.
How many channels are associated with Westinghouse 1C31147G01?	The documented configuration provides two accumulator channels.
Which signal path is used by Westinghouse 1C31147G01?	It is used for medium-speed pulse and control input within the specified subsystem.
Which companion hardware must be checked for Westinghouse 1C31147G01?	Confirm application-matched 1C31150G01-G03 personality module and the project-specific base or terminal arrangement.

IMPORTANT NOTICE	Use 1C31147G01 only with application-matched 1C31150G01-G03 personality module; verify the field interface and controlled configuration before energizing the subsystem.

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 1C31147G01?	Verify 2 pulse-accumulator channels; also confirm 24/48 v and 5/12 v medium-speed executions and every applicable range or wiring selection.
What connection details should be recorded for Westinghouse 1C31147G01?	Record terminal identifiers, polarity, common, shield termination, connector keying and the assigned channel before disconnection.
Which diagnostics should be reviewed when commissioning Westinghouse 1C31147G01?	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 1C31147G01 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 17, 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

Foxboro AD908AA FBM201	Related product reference. Review the complete ordering string before selection.
Foxboro AD916AG FBM204	Related product reference. Compare the required interface and system position.
Westinghouse 1C31122G01	Related product reference. Confirm the execution independently for the intended task.

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