IC697VAL314

General Electric / Isolated Four-Channel Analog Output Module

GE IC697VAL314 is offered as an isolated four-channel analog output module for the appropriate installed GE control system. Confirm the complete marking and system configuration before replacement.

Product identity and system role

IC697VAL314 is a four-channel isolated analog-output module for a compatible GE Fanuc rack. It generates current signals for engineered field-control loops rather than reading analog inputs.

The module provides four 4–20 mA channels, numbered 0 through 3, with 12-bit resolution. The GE user manual describes internal 15 V loop power or an external loop supply up to 30 V, selected with channel jumpers. The eight-channel IC697VAL318 is a separate model and its channel count must not be assigned to IC697VAL314.

Application design must retain the programmed output scaling, loop-power choice, field wiring and safe process state. During replacement, record jumper positions and channel assignments, then compare command, measured loop current and field-device response for every affected output.

Verified technical characteristics

Output channels	4 isolated channels
Output signal	4–20 mA current
Resolution	12 bit
Channel numbering	0–3
Loop supply	Internal 15 V or external supply up to 30 V
Loop-supply selection	Per-channel jumpers

Engineering context

Process analog control
Drive compatible 4–20 mA final-control or indication loops from a configured GE rack.

Four-channel restoration
Replace a matched IC697VAL314 while preserving output assignments 0 through 3.

Internally powered loops
Use the documented 15 V internal loop option where the approved circuit permits it.

Externally powered loops
Use a suitable external supply within the documented limit and matched jumper setting.

Configuration and verification

Place loops in safe state: Coordinate process isolation and output handover before removal.

Record jumpers: Photograph each channel loop-supply selection before exchange.

Check loop polarity: Preserve terminal and field-device connections.

Verify supply design: Do not mix internal and external loop supplies inadvertently.

Review output scaling: Retain engineering-unit and failsafe configuration.

Test all channels: Compare commanded current and field response for channels 0–3.

Selected engineering questions

How should loop power be selected on IC697VAL314?
Use the channel jumpers to match the installed internal 15 V or approved external supply arrangement.

What happens if an external supply is connected to IC697VAL314 with the wrong jumper setting?
The loop may not operate correctly and could be damaged; compare the jumper and circuit diagram before energization.

How can an open loop on IC697VAL314 be diagnosed?
Check current at the terminal, cable continuity, supply, load and channel diagnostics.

Why should IC697VAL318 data not be applied to IC697VAL314?
IC697VAL318 has eight outputs while IC697VAL314 has four; use the exact module number and channel map.

What should be saved before removing IC697VAL314?
Record output scaling, channel assignments, supply jumpers, load wiring and any failsafe values.

Can the current outputs of IC697VAL314 be used as voltage outputs by rewiring?
No. The documented IC697VAL314 execution is a 4–20 mA current-output module.

How should an output reading offset be investigated on IC697VAL314?
Compare command value, loop current, supply headroom, load resistance and calibration configuration.

What acceptance test follows replacement of IC697VAL314?
Exercise all four channels over approved test points and verify controlled field-device response and alarms.

Source and application boundary

GE Fanuc GFK-2093, PACSystems RX7i module listing, and GFK-2057, Analog Output Modules IC697VAL314/318 User Manual.

GFK-2093 and GFK-2057 identify IC697VAL314 directly. The four-channel, 12-bit and loop-supply entries apply to this exact module, not the eight-channel IC697VAL318.

Related product references

Separate product listings for project review; confirm each order code and system fit independently.

General Electric DS3800NOAA1F1D	General Electric DS200FSAAG2ABA DS2020FECNRX010A
General Electric IS215UCVEH2AF	General Electric IS210AEBIH1B IS210AEBIH1BED
General Electric DS3820PS7A1B1C	

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Send the complete model and installed-system details when requesting a quotation.