

IC670ALG310

GE Fanuc eight-channel isolated analog voltage output module

Eight 0-10 V or +/-10 V analog output commands

PRODUCT SNAPSHOT

BRAND

GE

FAMILY

GE Fanuc Field Control distributed I/O

PART

IC670ALG310

ORIGIN / HS

USA / 8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

Eight 0-10 V or +/-10 V analog output commands

1

Provides eight isolated voltage outputs

2

Offers bipolar and unipolar 10 V ranges

3

Uses 14-bit digital conversion

4

Reports user-power, calibration and range alarms

SYSTEM COMPONENTS

Separate user output supply

Two groups of voltage-driven field devices

Field Control BIU revision 2.0 or later

Configured analog-output and alarm-clear data

TECHNICAL NOTE

Confirm group isolation, user power, bipolar/unipolar range, scaling and output-default behavior before connecting field loads.

TECHNICAL DATA

PARAMETER	VALUE
Catalog number	IC670ALG310
Output channels	8
Output grouping	Two isolated groups of four
Voltage ranges	+/-10 V; 0 to 10 V
Digital resolution	14 bits
Output overrange	Approximately 10.25 V

PARAMETER	VALUE
Analog output data	0 to 8 words
Status data	0 to 24 bits
Fault-clear data	0 to 16 bits
Default output behavior	Zero or hold last state
Required BIU revision	2.0 or later
Isolation	250 V AC continuous; 1500 V AC for 1 minute

ENGINEERING NOTE

Confirm group isolation, user power, bipolar/unipolar range, scaling and output-default behavior before connecting field loads.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
IC693PWR331	Related GE product	View IC693PWR331 page
IS200VIBH1CAB	Related GE product	View IS200VIBH1CAB page
IS200VTURH1BAA	Related GE product	View IS200VTURH1BAA page
IS200TBCIH1BBC	Related GE product	View IS200TBCIH1BBC page
IS200TRPGH1B	Related GE product	View IS200TRPGH1B page
IC693MDL742	Related GE product	View IC693MDL742 page
IC670GBI102	Related GE product	View IC670GBI102 page
IC695CPU310	Related GE product	View IC695CPU310 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

isolated analog voltage command generation field station

Provides eight isolated voltage outputs

Remote I/O cabinet integration

Offers bipolar and unipolar 10 V ranges

Installed-base module renewal

Uses 14-bit digital conversion

Controlled commissioning and diagnostics

Reports user-power, calibration and range alarms

PRODUCT PRECAUTIONS

- 1 Verify the complete IC670ALG310 catalog marking and assigned Field Control position before work.
- 2 Place the connected isolated analog voltage command generation process in its approved maintenance state before disturbing the station.
- 3 Isolate BIU and field power, then confirm a safe condition at the IC670ALG310 terminal block.
- 4 Label and record channel conductors, returns, shields and external supply wiring before disconnecting any conductor from IC670ALG310.
- 5 Use ESD controls and protect the module connector, terminal block keying and exposed electronics.
- 6 Restore only the documented channel range, scaling, alarms and default behavior; do not copy settings from an adjacent module.
- 7 Energize in a controlled sequence and review PWR, channel, module and network diagnostics.
- 8 Complete low, midpoint and high signal checks plus alarm and diagnostic verification and retain the final result before returning the process to service.

ENGINEER FAQ

Q1 Does IC670ALG310 match Separate user output supply in a isolated analog voltage command generation field station installation?

Verify the complete IC670ALG310 marking, the documented GE Fanuc Field Control distributed I/O position and the installed Separate user output supply before fitting the assembly.

Q2 How should IC670ALG310 be wired when it must provides eight isolated voltage outputs?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for IC670ALG310; then continuity-test the affected path.

Q3 Which GE Fanuc Field Control distributed I/O records should be captured before removing IC670ALG310?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with IC670ALG310 before disconnection.

Q4 What controlled test confirms that IC670ALG310 can offers bipolar and unipolar 10 v ranges?

Apply the approved field or simulated stimulus, observe the GE Fanuc Field Control distributed I/O indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which Two groups of voltage-driven field devices condition should be checked when IC670ALG310 reports an abnormal state?

Check the Two groups of voltage-driven field devices supply, seating and connection first, then compare channel diagnostics with the recorded IC670ALG310 baseline.

Q6 Can IC670ALG310 be moved directly into Remote I/O cabinet integration without validating Configured analog-output and alarm-clear data?

No. Confirm the Configured analog-output and alarm-clear data, revision, connection scheme and GE Fanuc Field Control distributed I/O configuration before transferring IC670ALG310 to that duty.

Q7 What maintenance evidence is required after IC670ALG310 is used for Installed-base module renewal?

Retain the nameplate record, corrective action, final diagnostics and a controlled installed-base module renewal functional-test result for IC670ALG310.

Q8 How should IC670ALG310 be returned to service in Controlled commissioning and diagnostics?

Restore power under control, verify uses 14-bit digital conversion, exercise the intended signal path and release IC670ALG310 only after the GE Fanuc Field Control distributed I/O remains in its approved operating state.

SOURCE GE Fanuc Field Control Distributed I/O and Control System I/O Modules User's Manual | GFK-0826J, June 2002

+86 180 3023 5313 | sales13@apterpower.com | www.apterpower.com