

IC670ALG320

GE Fanuc four-channel current/voltage analog output module

Four analog current and voltage output pairs

PRODUCT SNAPSHOT

BRAND

GE

FAMILY

GE Fanuc Field Control distributed I/O

PART

IC670ALG320

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PRODUCT OVERVIEW

Four analog current and voltage output pairs

1

Provides four simultaneous current and voltage channels

2

Selects 0-20 mA with a JMP-to-RET jumper

3

Pairs 4-20 mA with 0-10 V operation

4

Supports scaling and current-output open-wire diagnostics

SYSTEM COMPONENTS

20 to 29 V DC loop supply

Current or voltage field loads

JMP and RET range-selection terminals

Field Control BIU analog-output allocation

TECHNICAL NOTE

Match each JMP-to-RET jumper to its configured current range, verify common return and loop power, and disable or load unused current outputs when only voltage is used.

TECHNICAL DATA

PARAMETER	VALUE
Catalog number	IC670ALG320
Output channels	4
Current ranges	4 to 20 mA; 0 to 20 mA with jumper
Voltage ranges	0 to 10 V; 0 to 12.5 V with jumper
Analog output data	4 words; 8 bytes
Power-supply range	20 to 29 V DC; 5% maximum ripple
Standby current	80 mA typical

PARAMETER	VALUE
Maximum operating current	180 mA including loop current
Power dissipation	1.5 W minimum; 4.3 W maximum
Typical digital resolution	12 bits
Voltage-only dummy load	250 to 800 ohm for open-wire supervision
Isolation	250 V AC continuous; 1500 V AC for 1 minute
BIU current	51 mA maximum

ENGINEERING NOTE

Match each JMP-to-RET jumper to its configured current range, verify common return and loop power, and disable or load unused current outputs when only voltage is used.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
IC697CMM742	Related GE product	View IC697CMM742 page
IC697CHS790	Related GE product	View IC697CHS790 page
IC698PSA350	Related GE product	View IC698PSA350 page
IC695CPE305	Related GE product	View IC695CPE305 page
151X1202YE03SA04-IS200ST...	Related GE product	View 151X1202YE03SA04-IS200ST... page
IS200TRLYH1BED	Related GE product	View IS200TRLYH1BED page
MIVII3000E00HI00	Related GE product	View MIVII3000E00HI00 page
IS215VPROH1BD	Related GE product	View IS215VPROH1BD page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

combined current and voltage command generation field station

Provides four simultaneous current and voltage channels

Remote I/O cabinet integration

Selects 0-20 mA with a JMP-to-RET jumper

Installed-base module renewal

Pairs 4-20 mA with 0-10 V operation

Controlled commissioning and diagnostics

Supports scaling and current-output open-wire diagnostics

PRODUCT PRECAUTIONS

- 1 Verify the complete IC670ALG320 catalog marking and assigned Field Control position before work.
- 2 Place the connected combined current and 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 IC670ALG320 terminal block.
- 4 Label and record channel conductors, returns, shields and external supply wiring before disconnecting any conductor from IC670ALG320.
- 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 IC670ALG320 match 20 to 29 V DC loop supply in a combined current and voltage command generation field station installation?

Verify the complete IC670ALG320 marking, the documented GE Fanuc Field Control distributed I/O position and the installed 20 to 29 V DC loop supply before fitting the assembly.

Q2 How should IC670ALG320 be wired when it must provides four simultaneous current and voltage channels?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for IC670ALG320; then continuity-test the affected path.

Q3 Which GE Fanuc Field Control distributed I/O records should be captured before removing IC670ALG320?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with IC670ALG320 before disconnection.

Q4 What controlled test confirms that IC670ALG320 can selects 0-20 ma with a jmp-to-ret jumper?

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 Current or voltage field loads condition should be checked when IC670ALG320 reports an abnormal state?

Check the Current or voltage field loads supply, seating and connection first, then compare channel diagnostics with the recorded IC670ALG320 baseline.

Q6 Can IC670ALG320 be moved directly into Remote I/O cabinet integration without validating Field Control BIU analog-output allocation?

No. Confirm the Field Control BIU analog-output allocation, revision, connection scheme and GE Fanuc Field Control distributed I/O configuration before transferring IC670ALG320 to that duty.

Q7 What maintenance evidence is required after IC670ALG320 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 IC670ALG320.

Q8 How should IC670ALG320 be returned to service in Controlled commissioning and diagnostics?

Restore power under control, verify pairs 4-20 ma with 0-10 v operation, exercise the intended signal path and release IC670ALG320 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

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