

INDUSTRIAL AUTOMATION PRODUCT

IC670ALG320

GE Fanuc four-channel current/voltage analog output module

Four analog current and voltage output pairs

IDENTITY	VERIFIED VALUE
Manufacturer	GE
System family	GE Fanuc Field Control distributed I/O
Part number	IC670ALG320
Country	USA
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named GE product record.

PARAMETER	TECHNICAL 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
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

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System Role and Architecture

Four analog current and voltage output pairs

FUNCTION 1

Provides four simultaneous current and voltage channels

FUNCTION 2

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

FUNCTION 3

Pairs 4-20 mA with 0-10 V operation

FUNCTION 4

Supports scaling and current-output open-wire diagnostics

Matched 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

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	20 to 29 V DC loop supply
Companion hardware	Current or voltage field loads
Field connection	JMP and RET range-selection terminals
Primary system function	Provides four simultaneous current and voltage channels
Controlled acceptance duty	combined current and voltage command generation field station

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Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	IC670ALG320 / IC670ALG320 recorded
Physical interface	20 to 29 V DC loop supply
Companion check	Current or voltage field loads
Functional proof	Provides four simultaneous current and voltage channels
Application test	combined current and voltage command generation field station

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Engineering 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER 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
IC693CMM321	Related GE product	View IC693CMM321 page
IC693PWR321	Related GE product	View IC693PWR321 page
IC693MDL740	Related GE product	View IC693MDL740 page

MANUFACTURER SOURCE RECORD

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

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