

IC670ALG330

GE Fanuc eight-channel analog current-source output module

Eight 0 to 20 mA sourced analog output signals

PRODUCT SNAPSHOT

BRAND

GE

FAMILY

GE Fanuc Field Control distributed I/O

PART

IC670ALG330

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PRODUCT OVERVIEW

Eight 0 to 20 mA sourced analog output signals

1

Drives eight 0-20 mA current outputs

2

Uses 16-bit conversion

3

Provides output overrange to about 20.48 mA

4

Supports per-channel scaling, defaults and alarm reporting

SYSTEM COMPONENTS

Separate analog output power

Eight current-loop loads

Field Control BIU revision 2.0 or later

Configured AQ and diagnostic data

TECHNICAL NOTE

Confirm user power, shared return, load resistance, scaling range, 500 ms timeout and open-wire threshold before enabling commands.

TECHNICAL DATA

PARAMETER	VALUE
Catalog number	IC670ALG330
Output channels	8
Output range	0 to 20 mA
Output overrange	Approximately 20.48 mA
Digital resolution	16 bits
Analog output data	0 to 8 words

PARAMETER	VALUE
Status data	0 to 32 bits
Fault-clear data	0 to 16 bits
Default BIU timeout	500 ms
Open-wire threshold	Approximately 2 mA
Open-wire enable condition	Configured low span at or above 3.5 mA
Required BIU revision	2.0 or later

ENGINEERING NOTE

Confirm user power, shared return, load resistance, scaling range, 500 ms timeout and open-wire threshold before enabling commands.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
IC695PNS001	Related GE product	View IC695PNS001 page
UR9GH	Related GE product	View UR9GH page
IC693ACC302B	Related GE product	View IC693ACC302B page
IC200PWR002G	Related GE product	View IC200PWR002G page
31F323G1	Related GE product	View 31F323G1 page
DS215TCCAG1BZZ01A-DS200T...	Related GE product	View DS215TCCAG1BZZ01A-DS200T... page
DS200TCCAG1AJB	Related GE product	View DS200TCCAG1AJB page
IS420UCSCH1A-G-V0-1-A	Related GE product	View IS420UCSCH1A-G-V0-1-A page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

eight-channel current-loop command generation field station

Drives eight 0-20 mA current outputs

Remote I/O cabinet integration

Uses 16-bit conversion

Installed-base module renewal

Provides output overrange to about 20.48 mA

Controlled commissioning and diagnostics

Supports per-channel scaling, defaults and alarm reporting

PRODUCT PRECAUTIONS

- 1 Verify the complete IC670ALG330 catalog marking and assigned Field Control position before work.
- 2 Place the connected eight-channel current-loop 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 IC670ALG330 terminal block.
- 4 Label and record channel conductors, returns, shields and external supply wiring before disconnecting any conductor from IC670ALG330.
- 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 IC670ALG330 match Separate analog output power in a eight-channel current-loop command generation field station installation?

Verify the complete IC670ALG330 marking, the documented GE Fanuc Field Control distributed I/O position and the installed Separate analog output power before fitting the assembly.

Q3 Which GE Fanuc Field Control distributed I/O records should be captured before removing IC670ALG330?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with IC670ALG330 before disconnection.

Q5 Which Eight current-loop loads condition should be checked when IC670ALG330 reports an abnormal state?

Check the Eight current-loop loads supply, seating and connection first, then compare channel diagnostics with the recorded IC670ALG330 baseline.

Q7 What maintenance evidence is required after IC670ALG330 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 IC670ALG330.

Q2 How should IC670ALG330 be wired when it must drives eight 0-20 ma current outputs?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for IC670ALG330; then continuity-test the affected path.

Q4 What controlled test confirms that IC670ALG330 can uses 16-bit conversion?

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.

Q6 Can IC670ALG330 be moved directly into Remote I/O cabinet integration without validating Configured AQ and diagnostic data?

No. Confirm the Configured AQ and diagnostic data, revision, connection scheme and GE Fanuc Field Control distributed I/O configuration before transferring IC670ALG330 to that duty.

Q8 How should IC670ALG330 be returned to service in Controlled commissioning and diagnostics?

Restore power under control, verify provides output overrange to about 20.48 ma, exercise the intended signal path and release IC670ALG330 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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