

IC670ALG310

GE Fanuc eight-channel isolated analog voltage output module

CONTROLLED ENGINEERING COPY

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

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	IC670ALG310
Manufacturer part	IC670ALG310
Hardware type	IC670ALG310
System family	GE Fanuc Field Control distributed I/O



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01 PRE-INSTALLATION PLAN

- 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.

MATCHED HARDWARE

- 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

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	IC670ALG310 / IC670ALG310 recorded
Physical interface	Separate user output supply
Companion check	Two groups of voltage-driven field devices
Functional proof	Provides eight isolated voltage outputs
Application test	isolated analog voltage command generation field station

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED 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
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

FIELD NOTE

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

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	IC670ALG310 / IC670ALG310 recorded
Physical interface	Separate user output supply
Companion check	Two groups of voltage-driven field devices
Functional proof	Provides eight isolated voltage outputs
Application test	isolated analog voltage command generation field station

04 RETURN-TO-SERVICE RECORD

- ☐ Restore only the documented channel range, scaling, alarms and default behavior; do not copy settings from an adjacent module.
- ☐ Energize in a controlled sequence and review PWR, channel, module and network diagnostics.
- ☐ Complete low, midpoint and high signal checks plus alarm and diagnostic verification and retain the final result before returning the process to service.
- ☐ Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	IC670ALG310
INSTALLED POSITION	Documented GE Fanuc Field Control distributed I/O position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
DS200TCPSG1APE	Related GE product	View DS200TCPSG1APE page
DS200CTBAG1ADD	Related GE product	View DS200CTBAG1ADD page
DS200TBQCG1ABB	Related GE product	View DS200TBQCG1ABB page
IC693ALG222	Related GE product	View IC693ALG222 page
IC676PBI008	Related GE product	View IC676PBI008 page
IC693ALG442	Related GE product	View IC693ALG442 page
IC660BRD024C1	Related GE product	View IC660BRD024C1 page
IC693ALG392	Related GE product	View IC693ALG392 page

SOURCE IDENTIFIERS

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

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