

IC670ALG240

GE Fanuc sixteen-channel grouped analog current input module

CONTROLLED ENGINEERING COPY

Confirm the shared analog return, transmitter power arrangement, 50/60 Hz selection, software filter and status-bit allocation before loop tests.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	IC670ALG240
Manufacturer part	IC670ALG240
Hardware type	IC670ALG240
System family	GE Fanuc Field Control distributed I/O



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01 PRE-INSTALLATION PLAN

- 1

Verify the complete IC670ALG240 catalog marking and assigned Field Control position before work.
- 2

Place the connected sixteen-channel process-current acquisition process in its approved maintenance state before disturbing the station.
- 3

Isolate BIU and field power, then confirm a safe condition at the IC670ALG240 terminal block.
- 4

Label and record channel conductors, returns, shields and external supply wiring before disconnecting any conductor from IC670ALG240.
- 5

Use ESD controls and protect the module connector, terminal block keying and exposed electronics.

MATCHED HARDWARE

- Two-wire or three-wire transmitters
- Common analog return
- Field Control BIU revision 2.0 or later
- Configured I and Q diagnostic data

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	IC670ALG240 / IC670ALG240 recorded
Physical interface	Two-wire or three-wire transmitters
Companion check	Common analog return
Functional proof	Scans sixteen current-loop channels
Application test	sixteen-channel process-current acquisition field station

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Catalog number	IC670ALG240
Input channels	16
Input-current span	0 to 25 mA
Input shunt	250 ohm
A/D resolution	16 bits
Digital counts	0 to 65535 for 0 to 25 mA
Resolution per LSB	0.38 microA
All-channel conversion	Approximately 1 ms
Analog input data	16 words
Status data	88 bits optional
Fault-clear data	16 bits optional
Filter selections	10 ms or 20 ms
Line-frequency selections	50 Hz or 60 Hz
Required BIU revision	2.0 or later

FIELD NOTE

Confirm the shared analog return, transmitter power arrangement, 50/60 Hz selection, software filter and status-bit allocation before loop tests.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	IC670ALG240 / IC670ALG240 recorded
Physical interface	Two-wire or three-wire transmitters
Companion check	Common analog return
Functional proof	Scans sixteen current-loop channels
Application test	sixteen-channel process-current acquisition 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	IC670ALG240
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
IC693PBM200	Related GE product	View IC693PBM200 page
IC200ALG260	Related GE product	View IC200ALG260 page
IC200MDL650	Related GE product	View IC200MDL650 page
IC200CHS022	Related GE product	View IC200CHS022 page
IC695CHS012	Related GE product	View IC695CHS012 page
IC693MDL645	Related GE product	View IC693MDL645 page
IC660BBR100	Related GE product	View IC660BBR100 page
IC693PWR330	Related GE product	View IC693PWR330 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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