

INDUSTRIAL AUTOMATION PRODUCT

IC670ALG240

GE Fanuc sixteen-channel grouped analog current input module

Sixteen 0 to 25 mA common-return input signals

IDENTITY	VERIFIED VALUE
Manufacturer	GE
System family	GE Fanuc Field Control distributed I/O
Part number	IC670ALG240
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	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

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System Role and Architecture

Sixteen 0 to 25 mA common-return input signals

FUNCTION 1

Scans sixteen current-loop channels

FUNCTION 2

Uses a 16-bit converter with 0.38 microA steps

FUNCTION 3

Completes an all-channel conversion in about 1 ms

FUNCTION 4

Supports channel alarms and latched fault clearing

Matched system components

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

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	Two-wire or three-wire transmitters
Companion hardware	Common analog return
Field connection	Field Control BIU revision 2.0 or later
Primary system function	Scans sixteen current-loop channels
Controlled acceptance duty	sixteen-channel process-current acquisition field station

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Applications and Engineering Context

sixteen-channel process-current acquisition field station

Scans sixteen current-loop channels

Remote I/O cabinet integration

Uses a 16-bit converter with 0.38 microA steps

Installed-base module renewal

Completes an all-channel conversion in about 1 ms

Controlled commissioning and diagnostics

Supports channel alarms and latched fault clearing

TECHNICAL NOTE

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

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	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

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Engineering Precautions

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.

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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
IC200MDD844	Related GE product	View IC200MDD844 page
IC693ACC302	Related GE product	View IC693ACC302 page
IS210AEBIH1BED	Related GE product	View IS210AEBIH1BED page
IC695CPU320	Related GE product	View IC695CPU320 page
IC755CSS12CDB	Related GE product	View IC755CSS12CDB page
IS220PDIOH1A	Related GE product	View IS220PDIOH1A page
IC693MDL231	Related GE product	View IC693MDL231 page
IC200MDL750	Related GE product	View IC200MDL750 page

MANUFACTURER SOURCE RECORD

GE Fanuc Field Control Distributed I/O and Control System I/O Modules User's Manual

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