IC670ALG240

GE Fanuc sixteen-channel grouped analog current input module

Sixteen 0 to 25 mA common-return input signals

PRODUCT SNAPSHOT

BRAND	GE
FAMILY	GE Fanuc Field Control distributed I/O
PART	IC670ALG240
ORIGIN / HS	USA / 8537101190

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PRODUCT OVERVIEW

Sixteen 0 to 25 mA common-return input signals

1. Scans sixteen current-loop channels
2. Uses a 16-bit converter with 0.38 microA steps
3. Completes an all-channel conversion in about 1 ms
4. Supports channel alarms and latched fault clearing

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

TECHNICAL NOTE

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

TECHNICAL DATA

PARAMETER	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

PARAMETER	VALUE
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

ENGINEERING NOTE

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

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
IC695NIU001-ADAD	Related GE product	View IC695NIU001-ADAD page
IC693BEM331	Related GE product	View IC693BEM331 page
HE693RTD600	Related GE product	View HE693RTD600 page
IC200TBM002	Related GE product	View IC200TBM002 page
IC200MDL940	Related GE product	View IC200MDL940 page
IS215UCVEH2AE	Related GE product	View IS215UCVEH2AE page
IS210AEAAH1BKE	Related GE product	View IS210AEAAH1BKE page
IC200BEM002	Related GE product	View IC200BEM002 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

PRODUCT 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.
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 IC670ALG240 match Two-wire or three-wire transmitters in a sixteen-channel process-current acquisition field station installation?

Verify the complete IC670ALG240 marking, the documented GE Fanuc Field Control distributed I/O position and the installed Two-wire or three-wire transmitters before fitting the assembly.

Q2 How should IC670ALG240 be wired when it must scans sixteen current-loop channels?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for IC670ALG240; then continuity-test the affected path.

Q3 Which GE Fanuc Field Control distributed I/O records should be captured before removing IC670ALG240?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with IC670ALG240 before disconnection.

Q4 What controlled test confirms that IC670ALG240 can uses a 16-bit converter with 0.38 microa steps?

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.

Q5 Which Common analog return condition should be checked when IC670ALG240 reports an abnormal state?

Check the Common analog return supply, seating and connection first, then compare channel diagnostics with the recorded IC670ALG240 baseline.

Q6 Can IC670ALG240 be moved directly into Remote I/O cabinet integration without validating Configured I and Q diagnostic data?

No. Confirm the Configured I and Q diagnostic data, revision, connection scheme and GE Fanuc Field Control distributed I/O configuration before transferring IC670ALG240 to that duty.

Q7 What maintenance evidence is required after IC670ALG240 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 IC670ALG240.

Q8 How should IC670ALG240 be returned to service in Controlled commissioning and diagnostics?

Restore power under control, verify completes an all-channel conversion in about 1 ms, exercise the intended signal path and release IC670ALG240 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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