

IC670ALG230

GE Fanuc eight-channel common-supply analog current input module

Eight 0-20 mA or 4-20 mA field-input signals

PRODUCT SNAPSHOT

BRAND

GE

FAMILY

GE Fanuc Field Control distributed I/O

PART

IC670ALG230

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PRODUCT OVERVIEW

Eight 0-20 mA or 4-20 mA field-input signals

1

Accepts eight 0-20 mA or 4-20 mA inputs

2

Uses a precision 250-ohm input path

3

Converts each channel in 60 microseconds at 1 MHz

4

Provides configurable scaling and open-wire supervision

SYSTEM COMPONENTS

Two-wire or externally powered transmitters

18 to 30 V DC loop supply

Field Control BIU revision supported by the station

Shielded analog field wiring

TECHNICAL NOTE

Confirm the common return, 250-ohm input path, selected 0-20/4-20 mA range and external loop supply before forcing calibrated current points.

TECHNICAL DATA

PARAMETER	VALUE
Catalog number	IC670ALG230
Input channels	8
Input ranges	0 to 20 mA; 4 to 20 mA
Typical digital resolution	12 bits; 5 microA
Input span	0.1 to 20 mA
Maximum input	30 mA
Input resistance	249.75 to 250.25 ohm

PARAMETER	VALUE
Conversion time	60 microseconds per channel at 1 MHz
Filter cutoff	160 Hz typical
Error at 25 degC	+/-0.05% full scale
Nonlinearity	+/-0.025% full scale
External supply	18 to 30 V DC; 24 V typical
Module current including loops	210 mA maximum
BIU current	51 mA maximum

ENGINEERING NOTE

Confirm the common return, 250-ohm input path, selected 0-20/4-20 mA range and external loop supply before forcing calibrated current points.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
DS200CPCAG1ABB	Related GE product	View DS200CPCAG1ABB page
IC694MDL660	Related GE product	View IC694MDL660 page
IC200PWR002	Related GE product	View IC200PWR002 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

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

eight-channel analog current acquisition field station

Accepts eight 0-20 mA or 4-20 mA inputs

Remote I/O cabinet integration

Uses a precision 250-ohm input path

Installed-base module renewal

Converts each channel in 60 microseconds at 1 MHz

Controlled commissioning and diagnostics

Provides configurable scaling and open-wire supervision

PRODUCT PRECAUTIONS

- 1 Verify the complete IC670ALG230 catalog marking and assigned Field Control position before work.
- 2 Place the connected eight-channel analog 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 IC670ALG230 terminal block.
- 4 Label and record channel conductors, returns, shields and external supply wiring before disconnecting any conductor from IC670ALG230.
- 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 IC670ALG230 match Two-wire or externally powered transmitters in a eight-channel analog current acquisition field station installation?

Verify the complete IC670ALG230 marking, the documented GE Fanuc Field Control distributed I/O position and the installed Two-wire or externally powered transmitters before fitting the assembly.

Q3 Which GE Fanuc Field Control distributed I/O records should be captured before removing IC670ALG230?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with IC670ALG230 before disconnection.

Q5 Which 18 to 30 V DC loop supply condition should be checked when IC670ALG230 reports an abnormal state?

Check the 18 to 30 V DC loop supply supply, seating and connection first, then compare channel diagnostics with the recorded IC670ALG230 baseline.

Q7 What maintenance evidence is required after IC670ALG230 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 IC670ALG230.

Q2 How should IC670ALG230 be wired when it must accepts eight 0-20 ma or 4-20 ma inputs?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for IC670ALG230; then continuity-test the affected path.

Q4 What controlled test confirms that IC670ALG230 can uses a precision 250-ohm input path?

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 IC670ALG230 be moved directly into Remote I/O cabinet integration without validating Shielded analog field wiring?

No. Confirm the Shielded analog field wiring, revision, connection scheme and GE Fanuc Field Control distributed I/O configuration before transferring IC670ALG230 to that duty.

Q8 How should IC670ALG230 be returned to service in Controlled commissioning and diagnostics?

Restore power under control, verify converts each channel in 60 microseconds at 1 mhz, exercise the intended signal path and release IC670ALG230 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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