

INDUSTRIAL AUTOMATION PRODUCT

IC670ALG230

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

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

IDENTITY	VERIFIED VALUE
Manufacturer	GE
System family	GE Fanuc Field Control distributed I/O
Part number	IC670ALG230
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	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
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

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System Role and Architecture

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

FUNCTION 1

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

FUNCTION 2

Uses a precision 250-ohm input path

FUNCTION 3

Converts each channel in 60 microseconds at 1 MHz

FUNCTION 4

Provides configurable scaling and open-wire supervision

Matched 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

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	Two-wire or externally powered transmitters
Companion hardware	18 to 30 V DC loop supply
Field connection	Field Control BIU revision supported by the station
Primary system function	Accepts eight 0-20 mA or 4-20 mA inputs
Controlled acceptance duty	eight-channel analog current acquisition field station

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Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	IC670ALG230 / IC670ALG230 recorded
Physical interface	Two-wire or externally powered transmitters
Companion check	18 to 30 V DC loop supply
Functional proof	Accepts eight 0-20 mA or 4-20 mA inputs
Application test	eight-channel analog current acquisition field station

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Engineering 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
IC693ACC310	Related GE product	View IC693ACC310 page
IC670PBI001	Related GE product	View IC670PBI001 page
IC670MDL740	Related GE product	View IC670MDL740 page
IC660BBD025	Related GE product	View IC660BBD025 page
IC693MDL741	Related GE product	View IC693MDL741 page
F31X139APMALG2FR01	Related GE product	View F31X139APMALG2FR01 page
531X111PSHAPG3	Related GE product	View 531X111PSHAPG3 page
269PLUS-100P-120	Related GE product	View 269PLUS-100P-120 page

MANUFACTURER SOURCE RECORD

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

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