

INDUSTRIAL AUTOMATION PRODUCT

IC670ALG630

GE Fanuc eight-channel thermocouple analog input module

Eight low-level thermocouple or millivolt input signals

IDENTITY	VERIFIED VALUE
Manufacturer	GE
System family	GE Fanuc Field Control distributed I/O
Part number	IC670ALG630
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	IC670ALG630
Input channels	8
Signal types	Thermocouple or millivolt
Converter resolution	15 bits plus sign
Thermocouple resolution	0.1 degC or 0.1 degF
Millivolt resolution	0.01 mV
Analog input data	8 words
Optional compensation data	8 analog output words
Status data	48 bits optional
Fault-clear data	16 bits optional
Automatic calibration	At powerup and every minute
Required BIU revision	2.0 or later

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	Supported thermocouple types
Companion hardware	Optional local or remote compensation sensor
Field connection	Field Control BIU revision 2.0 or later
Primary system function	Accepts eight thermocouple or millivolt inputs
Controlled acceptance duty	eight-channel thermocouple and millivolt acquisition field station

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System Role and Architecture

Eight low-level thermocouple or millivolt input signals

FUNCTION 1

Accepts eight thermocouple or millivolt inputs

FUNCTION 2

Reports thermocouple temperature in tenths

FUNCTION 3

Supports local or remote reference-junction compensation

FUNCTION 4

Repeats internal A/D calibration every minute

Matched system components

- Supported thermocouple types
- Optional local or remote compensation sensor
- Field Control BIU revision 2.0 or later
- Shielded low-level signal wiring

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	Supported thermocouple types
Companion hardware	Optional local or remote compensation sensor
Field connection	Field Control BIU revision 2.0 or later
Primary system function	Accepts eight thermocouple or millivolt inputs
Controlled acceptance duty	eight-channel thermocouple and millivolt acquisition field station

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Applications and Engineering Context

eight-channel thermocouple and millivolt acquisition field station

Accepts eight thermocouple or millivolt inputs

Remote I/O cabinet integration

Reports thermocouple temperature in tenths

Installed-base module renewal

Supports local or remote reference-junction compensation

Controlled commissioning and diagnostics

Repeats internal A/D calibration every minute

TECHNICAL NOTE

Confirm thermocouple type, polarity, compensation method, line-frequency setting and shield routing on every active channel before temperature simulation.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	IC670ALG630 / IC670ALG630 recorded
Physical interface	Supported thermocouple types
Companion check	Optional local or remote compensation sensor
Functional proof	Accepts eight thermocouple or millivolt inputs
Application test	eight-channel thermocouple and millivolt acquisition field station

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Engineering Precautions

- 1 Verify the complete IC670ALG630 catalog marking and assigned Field Control position before work.
- 2 Place the connected eight-channel thermocouple and millivolt acquisition process in its approved maintenance state before disturbing the station.
- 3 Isolate BIU and field power, then confirm a safe condition at the IC670ALG630 terminal block.
- 4 Label and record channel conductors, returns, shields and external supply wiring before disconnecting any conductor from IC670ALG630.
- 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
HE693SNP900	Related GE product	View HE693SNP900 page
IC660BBD022-855138	Related GE product	View IC660BBD022-855138 page
RE421REPAH1APR4	Related GE product	View RE421REPAH1APR4 page
8851-LC-MT	Related GE product	View 8851-LC-MT page
IS200DSPXH1DBD	Related GE product	View IS200DSPXH1DBD page
IS2020JPDCG1ACB	Related GE product	View IS2020JPDCG1ACB page
IS200EISBH1AAA	Related GE product	View IS200EISBH1AAA page
WESDAC-D20ME-GE-HARRIS-8...	Related GE product	View WESDAC-D20ME-GE-HARRIS-8... page

MANUFACTURER SOURCE RECORD

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

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