

INDUSTRIAL AUTOMATION PRODUCT

IC670ALG620

GE Fanuc four-channel RTD analog input module

Four compensated RTD resistance or temperature input values

IDENTITY	VERIFIED VALUE
Manufacturer	GE
System family	GE Fanuc Field Control distributed I/O
Part number	IC670ALG620
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	IC670ALG620
RTD channels	4
Wiring	Three-wire or four-wire
Supported sensor families	Platinum, nickel, nickel-iron and copper RTDs
Resistance ranges	0 to 500 ohm; 0 to 3000 ohm
Converter resolution	15 bits plus sign
Analog input data	4 words
Status data	32 bits optional
Fault-clear data	8 bits optional
Engineering-unit resolution	0.1 degC, 0.1 degF or 0.1 ohm
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 Pt, Ni, NiFe or Cu RTDs
Companion hardware	Three- or four-conductor sensor wiring
Field connection	Field Control BIU revision 2.0 or later
Primary system function	Accepts four independent RTD inputs
Controlled acceptance duty	four-channel RTD temperature measurement field station

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System Role and Architecture

Four compensated RTD resistance or temperature input values

FUNCTION 1

Accepts four independent RTD inputs

FUNCTION 2

Supports three-wire and four-wire compensation

FUNCTION 3

Reports temperature or resistance in tenths

FUNCTION 4

Repeats internal A/D calibration every minute

Matched system components

- Supported Pt, Ni, NiFe or Cu RTDs
- Three- or four-conductor sensor wiring
- Field Control BIU revision 2.0 or later
- Configured alarm and fault-clear data

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	Supported Pt, Ni, NiFe or Cu RTDs
Companion hardware	Three- or four-conductor sensor wiring
Field connection	Field Control BIU revision 2.0 or later
Primary system function	Accepts four independent RTD inputs
Controlled acceptance duty	four-channel RTD temperature measurement field station

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Applications and Engineering Context

four-channel RTD temperature measurement field station

Accepts four independent RTD inputs

Remote I/O cabinet integration

Supports three-wire and four-wire compensation

Installed-base module renewal

Reports temperature or resistance in tenths

Controlled commissioning and diagnostics

Repeats internal A/D calibration every minute

TECHNICAL NOTE

Match RTD type, alpha, wiring method and engineering units on every channel; prove lead compensation and open-sensor diagnostics before use.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	IC670ALG620 / IC670ALG620 recorded
Physical interface	Supported Pt, Ni, NiFe or Cu RTDs
Companion check	Three- or four-conductor sensor wiring
Functional proof	Accepts four independent RTD inputs
Application test	four-channel RTD temperature measurement field station

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Engineering Precautions

- 1 Verify the complete IC670ALG620 catalog marking and assigned Field Control position before work.
- 2 Place the connected four-channel RTD temperature measurement process in its approved maintenance state before disturbing the station.
- 3 Isolate BIU and field power, then confirm a safe condition at the IC670ALG620 terminal block.
- 4 Label and record channel conductors, returns, shields and external supply wiring before disconnecting any conductor from IC670ALG620.
- 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
IC200PWR002G	Related GE product	View IC200PWR002G page
31F323G1	Related GE product	View 31F323G1 page
DS215TCCAG1BZZ01A-DS200T...	Related GE product	View DS215TCCAG1BZZ01A-DS200T... page
DS200TCCAG1AJB	Related GE product	View DS200TCCAG1AJB page
IS420UCSCH1A-G-V0-1-A	Related GE product	View IS420UCSCH1A-G-V0-1-A page
XMTC-62-11-0	Related GE product	View XMTC-62-11-0 page
IS200TREA1A	Related GE product	View IS200TREA1A page
IS200WREA1A	Related GE product	View IS200WREA1A 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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