IC670ALG620

GE Fanuc four-channel RTD analog input module

Four compensated RTD resistance or temperature input values

PRODUCT SNAPSHOT

BRAND	FAMILY
GE	GE Fanuc Field Control distributed I/O
PART	ORIGIN / HS
IC670ALG620	USA / 8537101190

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PRODUCT OVERVIEW

Four compensated RTD resistance or temperature input values

1. Accepts four independent RTD inputs
2. Supports three-wire and four-wire compensation
3. Reports temperature or resistance in tenths
4. Repeats internal A/D calibration every minute

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

TECHNICAL NOTE

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

TECHNICAL DATA

PARAMETER	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

PARAMETER	VALUE
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 NOTE

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

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
MVTP31V1CB0751E	Related GE product	View MVTP31V1CB0751E page
DS215TCCAG1BZZ01	Related GE product	View DS215TCCAG1BZZ01 page
IS210AEAAH2BJE	Related GE product	View IS210AEAAH2BJE page
IS200HSLAH1ADE	Related GE product	View IS200HSLAH1ADE page
IS210MVRAH2A-IS200MVRAH2AFC	Related GE product	View IS210MVRAH2A-IS200MVRAH2AFC page
IS200BPPBH2CAA	Related GE product	View IS200BPPBH2CAA page
IS215PMVPH1AA-IS200MVREH...	Related GE product	View IS215PMVPH1AA-IS200MVREH... page
IC693MDR390	Related GE product	View IC693MDR390 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

PRODUCT 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.
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 IC670ALG620 match Supported Pt, Ni, NiFe or Cu RTDs in a four-channel RTD temperature measurement field station installation?

Verify the complete IC670ALG620 marking, the documented GE Fanuc Field Control distributed I/O position and the installed Supported Pt, Ni, NiFe or Cu RTDs before fitting the assembly.

Q2 How should IC670ALG620 be wired when it must accepts four independent rtd inputs?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for IC670ALG620; then continuity-test the affected path.

Q3 Which GE Fanuc Field Control distributed I/O records should be captured before removing IC670ALG620?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with IC670ALG620 before disconnection.

Q4 What controlled test confirms that IC670ALG620 can supports three-wire and four-wire compensation?

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 Three- or four-conductor sensor wiring condition should be checked when IC670ALG620 reports an abnormal state?

Check the Three- or four-conductor sensor wiring supply, seating and connection first, then compare channel diagnostics with the recorded IC670ALG620 baseline.

Q6 Can IC670ALG620 be moved directly into Remote I/O cabinet integration without validating Configured alarm and fault-clear data?

No. Confirm the Configured alarm and fault-clear data, revision, connection scheme and GE Fanuc Field Control distributed I/O configuration before transferring IC670ALG620 to that duty.

Q7 What maintenance evidence is required after IC670ALG620 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 IC670ALG620.

Q8 How should IC670ALG620 be returned to service in Controlled commissioning and diagnostics?

Restore power under control, verify reports temperature or resistance in tenths, exercise the intended signal path and release IC670ALG620 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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