IC670ALG630

GE Fanuc eight-channel thermocouple analog input module

Eight low-level thermocouple or millivolt input signals

PRODUCT SNAPSHOT

BRAND
GE

FAMILY
GE Fanuc Field Control distributed I/O

PART
IC670ALG630

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PRODUCT OVERVIEW

Eight low-level thermocouple or millivolt input signals

1. Accepts eight thermocouple or millivolt inputs
2. Reports thermocouple temperature in tenths
3. Supports local or remote reference-junction compensation
4. Repeats internal A/D calibration every minute

SYSTEM COMPONENTS

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

TECHNICAL NOTE

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

TECHNICAL DATA

PARAMETER	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

PARAMETER	VALUE
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 NOTE

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

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
IC200MDL940F	Related GE product	View IC200MDL940F page
IC660ERD024C1	Related GE product	View IC660ERD024C1 page
IC693ALG442C	Related GE product	View IC693ALG442C page
IC670GBI102D	Related GE product	View IC670GBI102D page
IC693DNM200-BC	Related GE product	View IC693DNM200-BC page
DS3800NERA1P1D	Related GE product	View DS3800NERA1P1D page
IS200SRTDH2ACB	Related GE product	View IS200SRTDH2ACB page
IS210AEDBH4A	Related GE product	View IS210AEDBH4A page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

PRODUCT 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.
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 IC670ALG630 match Supported thermocouple types in a eight-channel thermocouple and millivolt acquisition field station installation?

Verify the complete IC670ALG630 marking, the documented GE Fanuc Field Control distributed I/O position and the installed Supported thermocouple types before fitting the assembly.

Q2 How should IC670ALG630 be wired when it must accepts eight thermocouple or millivolt inputs?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for IC670ALG630; then continuity-test the affected path.

Q3 Which GE Fanuc Field Control distributed I/O records should be captured before removing IC670ALG630?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with IC670ALG630 before disconnection.

Q4 What controlled test confirms that IC670ALG630 can reports thermocouple temperature in tenths?

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 Optional local or remote compensation sensor condition should be checked when IC670ALG630 reports an abnormal state?

Check the Optional local or remote compensation sensor supply, seating and connection first, then compare channel diagnostics with the recorded IC670ALG630 baseline.

Q6 Can IC670ALG630 be moved directly into Remote I/O cabinet integration without validating Shielded low-level signal wiring?

No. Confirm the Shielded low-level signal wiring, revision, connection scheme and GE Fanuc Field Control distributed I/O configuration before transferring IC670ALG630 to that duty.

Q7 What maintenance evidence is required after IC670ALG630 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 IC670ALG630.

Q8 How should IC670ALG630 be returned to service in Controlled commissioning and diagnostics?

Restore power under control, verify supports local or remote reference-junction compensation, exercise the intended signal path and release IC670ALG630 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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