IC670ALG630

GE Fanuc eight-channel thermocouple analog input module

CONTROLLED ENGINEERING COPY

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

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	IC670ALG630
Manufacturer part	IC670ALG630
Hardware type	IC670ALG630
System family	GE Fanuc Field Control distributed I/O

1 PLAN — 2 ISOLATE — 3 CONNECT — 4 CONFIGURE — 5 TEST

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01 PRE-INSTALLATION PLAN

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.

MATCHED HARDWARE

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

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
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

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED 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

FIELD NOTE

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

03 COMMISSIONING WORKFLOW

1. Confirm IC670ALG630 and part number IC670ALG630 against the installed record.
2. Verify the physical connection to Supported thermocouple types.
3. Apply the documented technical values for catalog number.
4. Exercise the function: accepts eight thermocouple or millivolt inputs.
5. Run a controlled test for eight-channel thermocouple and millivolt acquisition field station.
6. Record the final state, diagnostics and operator acceptance before release.

COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	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

04 RETURN-TO-SERVICE RECORD

- [ ] Restore only the documented channel range, scaling, alarms and default behavior; do not copy settings from an adjacent module.
- [ ] Energize in a controlled sequence and review PWR, channel, module and network diagnostics.
- [ ] Complete low, midpoint and high signal checks plus alarm and diagnostic verification and retain the final result before returning the process to service.
- [ ] Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	IC670ALG630
INSTALLED POSITION	Documented GE Fanuc Field Control distributed I/O position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
IS200BPIBG1A-C2-A0IS200B...	Related GE product	View IS200BPIBG1A-C2-A0IS200B... page
IS200ECGIH1A-C2-A0IS200E...	Related GE product	View IS200ECGIH1A-C2-A0IS200E... page
IC693CPU374-158503	Related GE product	View IC693CPU374-158503 page
IC695ALG312	Related GE product	View IC695ALG312 page
IC695ALG508	Related GE product	View IC695ALG508 page
IC693PTM101A	Related GE product	View IC693PTM101A page
IC695CMX128	Related GE product	View IC695CMX128 page
IC693CPU363-DL	Related GE product	View IC693CPU363-DL page

SOURCE IDENTIFIERS

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

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