

IC670ALG620

GE Fanuc four-channel RTD analog input module

CONTROLLED ENGINEERING COPY

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

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	IC670ALG620
Manufacturer part	IC670ALG620
Hardware type	IC670ALG620
System family	GE Fanuc Field Control distributed I/O



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01 PRE-INSTALLATION PLAN

- 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.

MATCHED HARDWARE

- 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

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
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

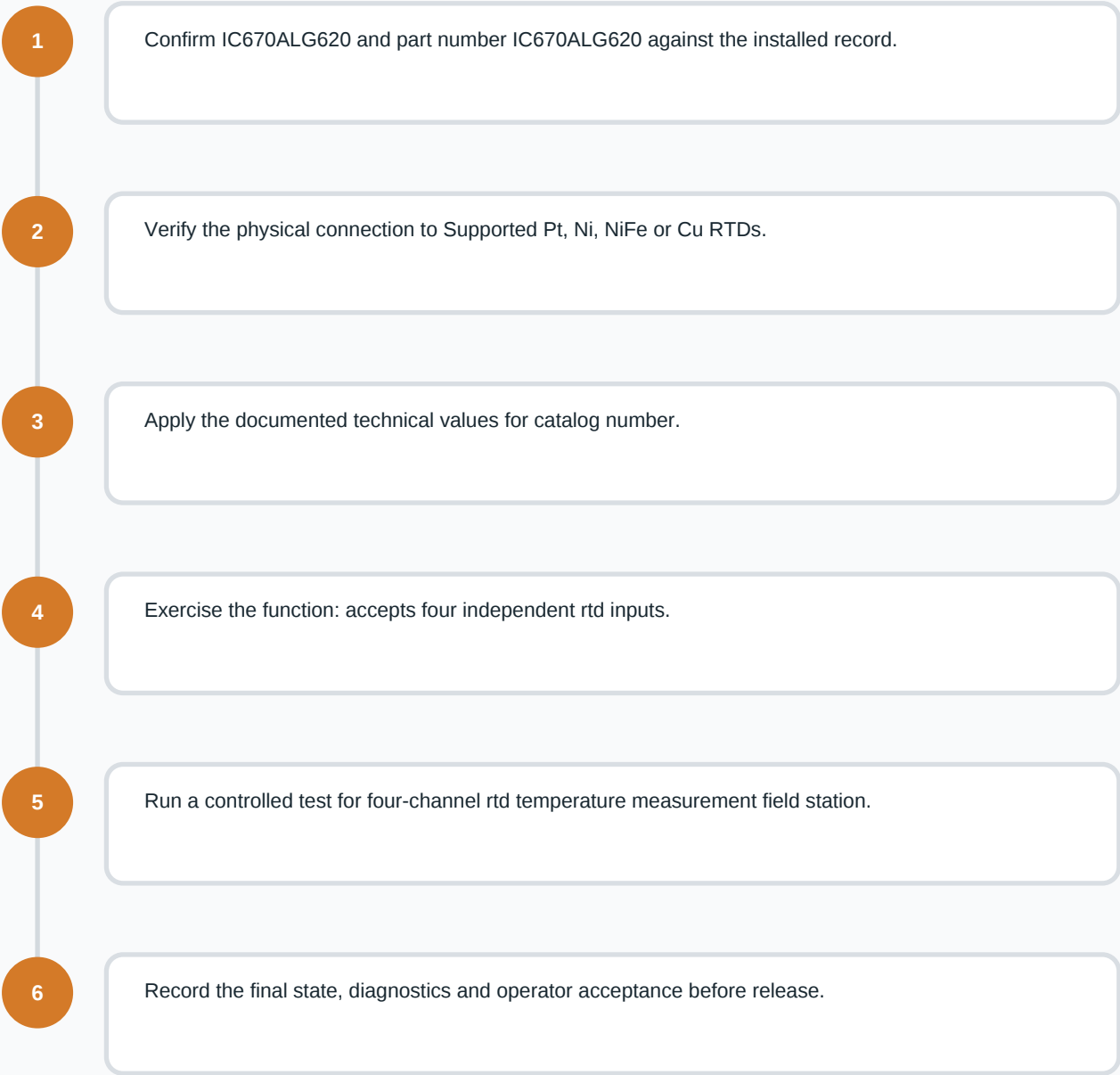
02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED 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

FIELD NOTE

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

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	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

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	IC670ALG620
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
IS200TDBTH2ACD	Related GE product	View IS200TDBTH2ACD page
IC200UDR005-BD	Related GE product	View IC200UDR005-BD page
IS200VCMIH2BCD-IS215VCM I...	Related GE product	View IS200VCMIH2BCD-IS215VCMI... page
IS200TDBTH2A	Related GE product	View IS200TDBTH2A page
LOCON-24-0360-A32I	Related GE product	View LOCON-24-0360-A32I page
HE693THM884G	Related GE product	View HE693THM884G page
IC200ALG261	Related GE product	View IC200ALG261 page
489-P5-HI-A20-E	Related GE product	View 489-P5-HI-A20-E page

SOURCE IDENTIFIERS

GE Fanuc Field Control Distributed I/O and Control System I/O Modules User's Manual
GFK-0826J, June 2002

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