

IC670ALG230

GE Fanuc eight-channel common-supply analog current input module

CONTROLLED ENGINEERING COPY

Confirm the common return, 250-ohm input path, selected 0-20/4-20 mA range and external loop supply before forcing calibrated current points.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	IC670ALG230
Manufacturer part	IC670ALG230
Hardware type	IC670ALG230
System family	GE Fanuc Field Control distributed I/O



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01 PRE-INSTALLATION PLAN

- 1

Verify the complete IC670ALG230 catalog marking and assigned Field Control position before work.
- 2

Place the connected eight-channel analog current acquisition process in its approved maintenance state before disturbing the station.
- 3

Isolate BIU and field power, then confirm a safe condition at the IC670ALG230 terminal block.
- 4

Label and record channel conductors, returns, shields and external supply wiring before disconnecting any conductor from IC670ALG230.
- 5

Use ESD controls and protect the module connector, terminal block keying and exposed electronics.

MATCHED HARDWARE

- Two-wire or externally powered transmitters
- 18 to 30 V DC loop supply
- Field Control BIU revision supported by the station
- Shielded analog field wiring

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	IC670ALG230 / IC670ALG230 recorded
Physical interface	Two-wire or externally powered transmitters
Companion check	18 to 30 V DC loop supply
Functional proof	Accepts eight 0-20 mA or 4-20 mA inputs
Application test	eight-channel analog current acquisition field station

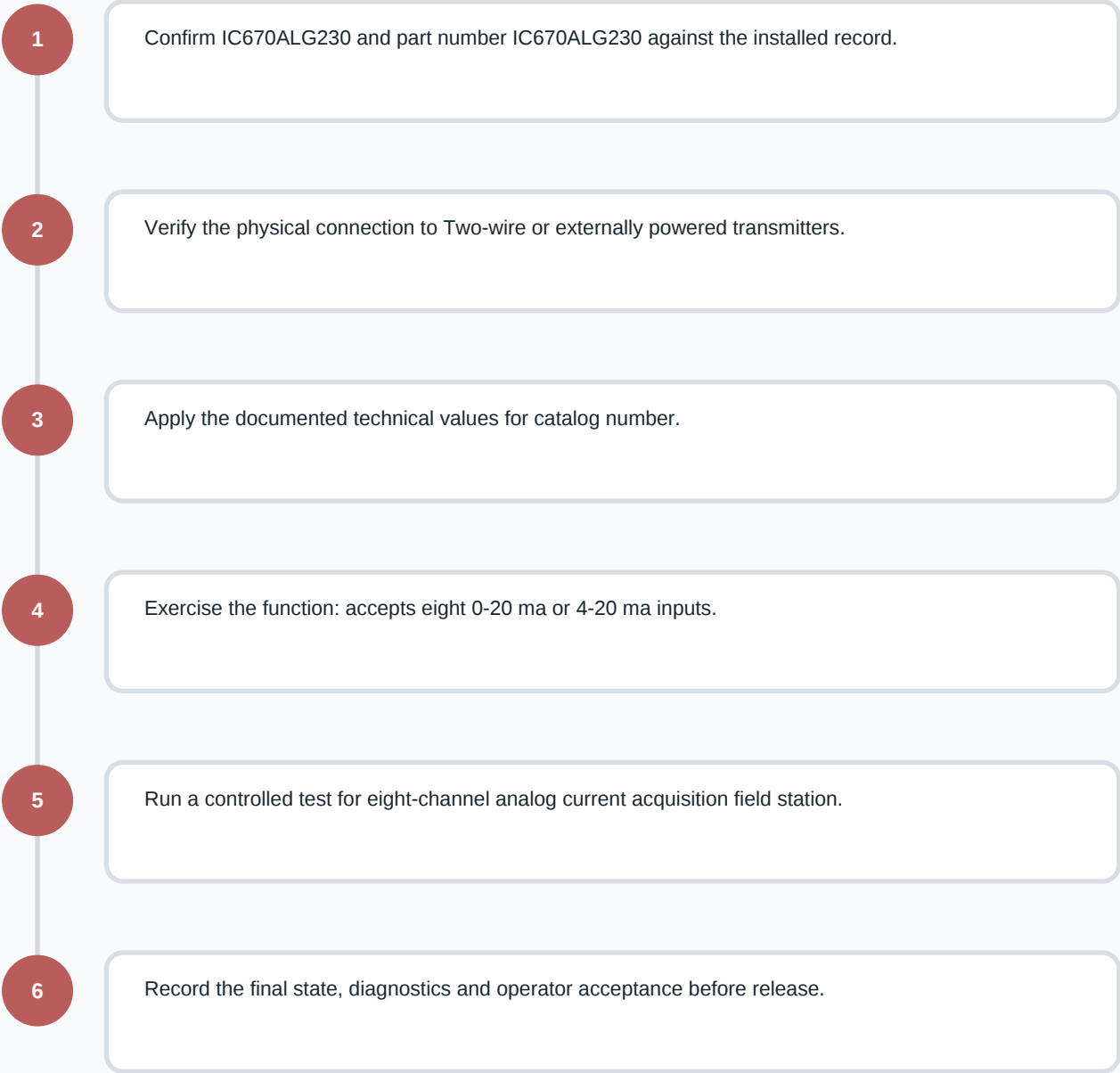
02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Catalog number	IC670ALG230
Input channels	8
Input ranges	0 to 20 mA; 4 to 20 mA
Typical digital resolution	12 bits; 5 microA
Input span	0.1 to 20 mA
Maximum input	30 mA
Input resistance	249.75 to 250.25 ohm
Conversion time	60 microseconds per channel at 1 MHz
Filter cutoff	160 Hz typical
Error at 25 degC	+/-0.05% full scale
Nonlinearity	+/-0.025% full scale
External supply	18 to 30 V DC; 24 V typical
Module current including loops	210 mA maximum
BIU current	51 mA maximum

FIELD NOTE

Confirm the common return, 250-ohm input path, selected 0-20/4-20 mA range and external loop supply before forcing calibrated current points.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	IC670ALG230 / IC670ALG230 recorded
Physical interface	Two-wire or externally powered transmitters
Companion check	18 to 30 V DC loop supply
Functional proof	Accepts eight 0-20 mA or 4-20 mA inputs
Application test	eight-channel analog current 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	IC670ALG230
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
IC697BEM711	Related GE product	View IC697BEM711 page
IC693DSM302	Related GE product	View IC693DSM302 page
IC200CPUE05	Related GE product	View IC200CPUE05 page
DS200TCCAG1BAA	Related GE product	View DS200TCCAG1BAA page
DS200TBQBG1ACB	Related GE product	View DS200TBQBG1ACB page
DS200TBCAG1AAB	Related GE product	View DS200TBCAG1AAB page
DS200DTBBG1ABB	Related GE product	View DS200DTBBG1ABB page
DS200DTBCG1AAA	Related GE product	View DS200DTBCG1AAA 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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