

IC670GBI002

GE Fanuc Field Control Genius Bus Interface Unit, 24 VDC

Bidirectional Genius network data, configuration and diagnostic traffic

PRODUCT SNAPSHOT

BRAND

GE

FAMILY

GE Fanuc Field Control distributed I/O

PART

IC670GBI002

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PRODUCT OVERVIEW

Bidirectional Genius network data, configuration and diagnostic traffic

1

Connects the station to Genius

2

Supports up to eight Field Control I/O modules

3

Exchanges configured input and output data with the host

4

Provides station and module diagnostic access

SYSTEM COMPONENTS

Genius network

Field Control terminal block

Up to eight compatible I/O modules

24 V DC station power

TECHNICAL NOTE

Confirm IC670GBI002, 24 V DC station power, network address, bus termination and the configured I/O map before connecting the station to the host.

TECHNICAL DATA

PARAMETER	VALUE
Catalog number	IC670GBI002
Network	Genius bus
Input power	24 V DC
Station capacity	Up to 8 Field Control I/O modules
Input data capacity	Up to 128 bytes
Output data capacity	Up to 128 bytes

PARAMETER	VALUE
Bus devices per network	Up to 32
Supported station device numbers	0 to 31
Terminal screw torque	9 in-lb
Ground conductor	No. 14 AWG or larger; 4 in maximum
Terminal conductors	One No. 14 AWG or two No. 16 AWG copper; 75 degC

ENGINEERING NOTE

Confirm IC670GBI002, 24 V DC station power, network address, bus termination and the configured I/O map before connecting the station to the host.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
DS2020DACAG2	Related GE product	View DS2020DACAG2 page
IS200VVOH1BEF	Related GE product	View IS200VVOH1BEF page
IS200EPSMG1AED	Related GE product	View IS200EPSMG1AED page
DS200TCRAG1ACC	Related GE product	View DS200TCRAG1ACC page
UR-RHV	Related GE product	View UR-RHV page
DS200TCPSG1ARE	Related GE product	View DS200TCPSG1ARE page
DS200DTBDG1ABB	Related GE product	View DS200DTBDG1ABB page
DS200TBQCG1AAA	Related GE product	View DS200TBQCG1AAA page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Genius bus interface field station

Connects the station to Genius

Remote I/O cabinet integration

Supports up to eight Field Control I/O modules

Installed-base module renewal

Exchanges configured input and output data with the host

Controlled commissioning and diagnostics

Provides station and module diagnostic access

PRODUCT PRECAUTIONS

- 1 Verify the complete IC670GBI002 catalog marking and assigned Field Control position before work.
- 2 Place the connected Genius process in its approved maintenance state before disturbing the station.
- 3 Isolate BIU and field power, then confirm a safe condition at the IC670GBI002 terminal block.
- 4 Label and record network conductors, shield, termination and field-power wiring before disconnecting any conductor from IC670GBI002.
- 5 Use ESD controls and protect the module connector, terminal block keying and exposed electronics.
- 6 Restore only the documented station address, data map and module configuration; do not copy settings from an adjacent module.
- 7 Energize in a controlled sequence and review PWR, channel, module and network diagnostics.
- 8 Complete network communication, module recognition and I/O response tests and retain the final result before returning the process to service.

ENGINEER FAQ

Q1 Does IC670GBI002 match Genius network in a Genius bus interface field station installation?

Verify the complete IC670GBI002 marking, the documented GE Fanuc Field Control distributed I/O position and the installed Genius network before fitting the assembly.

Q2 How should IC670GBI002 be wired when it must connects the station to genius?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for IC670GBI002; then continuity-test the affected path.

Q3 Which GE Fanuc Field Control distributed I/O records should be captured before removing IC670GBI002?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with IC670GBI002 before disconnection.

Q4 What controlled test confirms that IC670GBI002 can supports up to eight field control i/o modules?

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 Field Control terminal block condition should be checked when IC670GBI002 reports an abnormal state?

Check the Field Control terminal block supply, seating and connection first, then compare channel diagnostics with the recorded IC670GBI002 baseline.

Q6 Can IC670GBI002 be moved directly into Remote I/O cabinet integration without validating 24 V DC station power?

No. Confirm the 24 V DC station power, revision, connection scheme and GE Fanuc Field Control distributed I/O configuration before transferring IC670GBI002 to that duty.

Q7 What maintenance evidence is required after IC670GBI002 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 IC670GBI002.

Q8 How should IC670GBI002 be returned to service in Controlled commissioning and diagnostics?

Restore power under control, verify exchanges configured input and output data with the host, exercise the intended signal path and release IC670GBI002 only after the GE Fanuc Field Control distributed I/O remains in its approved operating state.

SOURCE GE Fanuc Field Control Genius Bus Interface Unit User's Manual | GFK-0825F

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