

IC670PBI001

GE Fanuc Field Control PROFIBUS-DP Bus Interface Unit

Bidirectional PROFIBUS-DP network data, configuration and diagnostic traffic

PRODUCT SNAPSHOT

BRAND

GE

FAMILY

GE Fanuc Field Control distributed I/O

PART

IC670PBI001

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PRODUCT OVERVIEW

Bidirectional PROFIBUS-DP network data, configuration and diagnostic traffic

1

Connects the station to PROFIBUS-DP

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

PROFIBUS-DP network

Field Control terminal block

Up to eight compatible I/O modules

24 V DC station power

TECHNICAL NOTE

Confirm IC670PBI001, 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	IC670PBI001
Network	PROFIBUS-DP
Station capacity	Up to 8 Field Control I/O modules
Nominal input voltage	24 V DC
Input-voltage range	18 to 30 V DC
Maximum input power	16.8 W at full load
Inrush current	15 to 50 A peak; 3 ms maximum

PARAMETER	VALUE
I/O supply output	6.5 V DC +/-5%; 1.4 A maximum
Hold-up time	10 ms from nominal input
PROFIBUS address range	1 to 126
Operating temperature	0 to 55 degC
Storage temperature	-40 to 85 degC
Relative humidity	5 to 95%; noncondensing
BIU MTBF	>183,000 h

ENGINEERING NOTE

Confirm IC670PBI001, 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
IC693ALG222C	Related GE product	View IC693ALG222C page
IC660TBA024	Related GE product	View IC660TBA024 page
IC660BBA104	Related GE product	View IC660BBA104 page
IC660BBA100	Related GE product	View IC660BBA100 page
IC600BF843	Related GE product	View IC600BF843 page
IC200CHS022L	Related GE product	View IC200CHS022L page
IC200ALG430	Related GE product	View IC200ALG430 page
IC200ALG630	Related GE product	View IC200ALG630 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

PROFIBUS-DP bus interface field station

Connects the station to PROFIBUS-DP

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 IC670PBI001 catalog marking and assigned Field Control position before work.
- 2 Place the connected PROFIBUS-DP process in its approved maintenance state before disturbing the station.
- 3 Isolate BIU and field power, then confirm a safe condition at the IC670PBI001 terminal block.
- 4 Label and record network conductors, shield, termination and field-power wiring before disconnecting any conductor from IC670PBI001.
- 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 IC670PBI001 match PROFIBUS-DP network in a PROFIBUS-DP bus interface field station installation?

Verify the complete IC670PBI001 marking, the documented GE Fanuc Field Control distributed I/O position and the installed PROFIBUS-DP network before fitting the assembly.

Q3 Which GE Fanuc Field Control distributed I/O records should be captured before removing IC670PBI001?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with IC670PBI001 before disconnection.

Q5 Which Field Control terminal block condition should be checked when IC670PBI001 reports an abnormal state?

Check the Field Control terminal block supply, seating and connection first, then compare channel diagnostics with the recorded IC670PBI001 baseline.

Q7 What maintenance evidence is required after IC670PBI001 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 IC670PBI001.

Q2 How should IC670PBI001 be wired when it must connects the station to profibus-dp?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for IC670PBI001; then continuity-test the affected path.

Q4 What controlled test confirms that IC670PBI001 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.

Q6 Can IC670PBI001 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 IC670PBI001 to that duty.

Q8 How should IC670PBI001 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 IC670PBI001 only after the GE Fanuc Field Control distributed I/O remains in its approved operating state.

SOURCE GE Fanuc Field Control Profibus Bus Interface Unit User's Manual | GFK-1291A

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