

IC660BBA103

115 VAC/125 VDC Thermocouple Input Block

Official GE Genius I/O reference for the documented 115 vac/125 vdc thermocouple input block.

PRODUCT SNAPSHOT

BRAND
General Electric

FAMILY
GE Genius I/O

PART
IC660BBA103

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

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PRODUCT OVERVIEW

IC660BBA103 provides the documented 115 vac/125 vdc thermocouple input block role for a matched GE Genius I/O installation.



Provides the documented 115 vac/125 vdc thermocouple input block function



Uses exact catalog identity IC660BBA103 for replacement control



Integrates with the matched GE Genius I/O hardware



Supports controlled connection checks and functional verification

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
IC660BBA103 product block	Matched Genius bus controller
Documented field wiring	Approved host configuration

ENGINEERING CONTEXT

The component is used with the exact terminal assembly, carrier, power grouping and bus configuration identified for IC660BBA103. Commissioning preserves the installed point map and verifies controlled field response.

TECHNICAL DATA

PARAMETER	VALUE
Thermocouple inputs	6
Input grouping	Three isolated groups of two
Supported types	J, K, T, E, B, R, S and N
Voltage range	-25.0 to +150 mV
Resolution	Less than 4 uV

PARAMETER	VALUE
Input amplifier bandwidth	8 Hz
Block power	93 to 132 VAC or 105 to 145 VDC
Block isolation	1500 V for one minute
Group isolation	300 V
Heat dissipation	9 W maximum

RELATED GE PRODUCT PAGES

1GE IC670ALG310

2GE IC670ALG240

3GE IC670ALG230

4GE IC670MFP100

5GE IC670FBI001

6GE IC670ALG630

7GE IC670ALG620

8GE IC670ALG330

9GE IC670ALG320

TECHNICAL NOTE

Install IC660BBA103 only in the documented GE Genius I/O position. Preserve the as-found terminal mapping and configuration, then verify diagnostics and the affected field function under controlled conditions.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

GE Genius I/O station maintenance

Restores the documented 115 vac/125 vdc thermocouple input block function in an engineered

Distributed I/O refurbishment

Uses exact IC660BBA103 identity when rebuilding the recorded field interface.

Control-panel modernization

Preserves the approved terminal, power and communications arrangement during migration work.

Controlled recommissioning

Verifies point mapping, diagnostics and field response before process release.

PRODUCT PRECAUTIONS

1

Confirm the full IC660BBA103 catalog marking and installed GE Genius I/O position before work.

2

Isolate the station supply and connected field energy using the approved procedure.

3

Record every terminal, common, shield, connector and configured point before removal.

4

Use ESD controls and protect backplane, terminal and connector contacts from contamination.

5

Verify each documented value for IC660BBA103 against the installed host and field circuit.

6

Restore the approved terminal assembly, power grouping and configuration record.

7

Energize in the prescribed sequence and review module, bus and point diagnostics.

8

Complete a controlled signal or load test before returning the station to service.

ENGINEER FAQ

Q1 How is IC660BBA103 identified?

Match the complete catalog number and the 115 VAC/125 VDC Thermocouple Input Block designation.

Q2 Which system accepts IC660BBA103?

Use the documented GE Genius I/O carrier, terminal and bus arrangement.

Q3 What records are retained before removing IC660BBA103?

Record terminals, commons, shields, connectors, point mapping and diagnostics.

Q4 How is IC660BBA103 isolated safely?

Isolate station and field supplies, prove the safe state and apply ESD controls.

Q5 Which official values govern IC660BBA103?

Thermocouple inputs: 6; Input grouping: Three isolated groups of two; Supported types: J, K, T, E, B, R, S and N; Voltage range: -25.0 to +150 mV.

Q6 How is IC660BBA103 configuration restored?

Restore the approved hardware execution, power grouping and point map.

Q7 Which diagnostics follow IC660BBA103 energization?

Review module, bus and channel status in the prescribed startup sequence.

Q8 What releases IC660BBA103 to service?

A controlled signal or load test with the expected field response and no active diagnostic.

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SOURCE Genius I/O Discrete and Analog Blocks User's Manual | GE Fanuc GEK-90486D-2, September 1993

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