

IC660BBA023

24/48 VDC Thermocouple Input Block

GE IC660BBA023 is the documented 24/48 VDC Thermocouple Input Block for the Genius I/O.

IDENTITY	VERIFIED VALUE
Manufacturer	General Electric
System family	Genius I/O
Part number	IC660BBA023
Product role	Provides the documented 24/48 vdc thermocouple input block function
Lifecycle	Installed product record

DOCUMENT SCOPE

Exact-article identity, technical data, host role, installation checks, applications, precautions and engineering verification.

MODEL-SPECIFIC ENGINEERING NOTE

Install IC660BBA023 only in the documented Genius I/O position. Preserve the as-found terminal mapping and configuration, then verify diagnostics and the affected field function under controlled conditions.

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IC660BBA023

Technical Specifications

Technical values below are limited to the named General Electric product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Thermocouple inputs	6	Supply range	18 to 56 V DC
Input grouping	Three isolated groups of two	Block isolation	1500 V for one minute
Supported types	J, K, T, E, B, R, S and N	Group isolation	300 V
Block power	24/48 V DC	Heat dissipation	9 W maximum

Verified Product Record

DATA GROUP	VERIFIED VALUE
Installed host / carrier	Genius I/O
Primary system role	Provides the documented 24/48 vdc thermocouple input block function
Connection boundary	Install IC660BBA023 only in the documented Genius I/O position. Preserve the as-found terminal mapping and configuration, then verify diagnostics and the affected field function under controlled conditions.
Controlled acceptance duty	Genius I/O station maintenance

ENGINEERING BOUNDARY

Confirm IC660BBA023, host, terminals, power grouping, point map and controlled test results before release.

Pre-Installation Checks

- 1

Confirm the full IC660BBA023 catalog marking and installed 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.

Documented Service Record

RECORD ITEM	REQUIRED ENTRY
As-found article	IC660BBA023
Installed host	Genius I/O
Connection record	Capture before removal
Controlled release	Diagnostics and functional proof

System Role and Architecture

GE IC660BBA023 is the documented 24/48 VDC Thermocouple Input Block for the Genius I/O.

FUNCTION 1
Provides the documented 24/48 vdc thermocouple input block function

FUNCTION 2
Uses exact catalog identity IC660BBA023 for replacement control

FUNCTION 3
Integrates with the matched Genius I/O hardware

FUNCTION 4
Supports controlled connection checks and functional verification

Matched System Components

NO.	DOCUMENTED COMPONENT / ROLE
1	Genius I/O
2	Three isolated groups of two
3	Genius I/O station maintenance
4	Install IC660BBA023 only in the documented Genius I/O position. Preserve the as-found terminal mapping and configuration, then verify diagnostics and the affected field function under controlled conditions.

System Integration Record

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Genius I/O
Interface role	Provides the documented 24/48 vdc thermocouple input block function
Field / power context	The component is used with the exact terminal assembly, carrier, power grouping and bus configuration identified for IC660BBA023. Commissioning preserves the installed point map and verifies controlled field response.
Commissioning evidence	Complete a controlled signal or load test before returning the station to service.

Installation and Connection Checks

1

Verify each documented value for IC660BBA023 against the installed host and field circuit.

2

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

3

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

4

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

MANUFACTURER SOURCE RECORD

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

Applications and Engineering Context

Genius I/O station maintenance

Restores the documented 24/48 vdc thermocouple input block function in an engineered station.

Distributed I/O refurbishment

Uses exact IC660BBA023 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.

TECHNICAL NOTE

Install IC660BBA023 only in the documented Genius I/O position. Preserve the as-found terminal mapping and configuration, then verify diagnostics and the affected field function under controlled conditions.

Model-Specific Acceptance Evidence

CHECK	ACCEPTANCE CONDITION
Identity	IC660BBA023 recorded
Host / carrier	Genius I/O
Physical interface	Provides the documented 24/48 vdc thermocouple input block function
Configuration	Energize in the prescribed sequence and review module, bus and point diagnostics.
Functional proof	Complete a controlled signal or load test before returning the station to service.

IMPORTANT NOTICE

Confirm IC660BBA023, host, terminals, power grouping, point map and controlled test results before release.

Controlled Release Summary

RELEASE ITEM	MODEL-SPECIFIC CONDITION
Article identity	IC660BBA023
Approved role	Genius I/O station maintenance
Final validation	Complete a controlled signal or load test before returning the station to service.

Engineering Precautions

- 1

Confirm the full IC660BBA023 catalog marking and installed 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 IC660BBA023 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.

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
IS200STAIH2ACB-IS200STAIH1ABB	product page	View IS200STAIH2ACB-IS200STAIH1ABB page
DS200CTBAG1ACC	product page	View DS200CTBAG1ACC page
DS200TBQGG1ABB	product page	View DS200TBQGG1ABB page
DS200SLCCG3AGH	product page	View DS200SLCCG3AGH page
DS200TCDAH1BHE	product page	View DS200TCDAH1BHE page
DS200TBCBG1AAA	product page	View DS200TBCBG1AAA page
DS200RTBAG2AGL	product page	View DS200RTBAG2AGL page
DS200RTBAG1AHC	product page	View DS200RTBAG1AHC page

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