

IC660BBA023

24/48 VDC Thermocouple Input Block

GE IC660BBA023 is a 24/48 VDC Thermocouple Input Block for the Genius I/O. It provides the documented field interface or control function in the configured system.

BRAND	General Electric	FAMILY	Genius I/O
PART	IC660BBA023	SYSTEM ROLE	Provides the documented 24/48 vdc thermocouple input block function

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IC660BBA023

MANUFACTURER SOURCE RECORD

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

Product Overview

SYSTEM FUNCTION

GE IC660BBA023 is a 24/48 VDC Thermocouple Input Block for the Genius I/O. It provides the documented field interface or control function in the configured system.

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

System Components

COMPONENT	DOCUMENTED ROLE
Host / carrier	Genius I/O
Primary interface	Provides the documented 24/48 vdc thermocouple input block function
Engineering 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 duty	Complete a controlled signal or load test before returning the station to service.

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.

Technical Data

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

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
DS200RTBAG2AGL	product page	View DS200RTBAG2AGL page
DS200RTBAG1AHC	product page	View DS200RTBAG1AHC page
IS200STAIH2ACB-IS200STAIH1ABB	product page	View IS200STAIH2ACB-IS200STAIH1ABB page
DS200CTBAG1ACC	product page	View DS200CTBAG1ACC page
DS200TBQGG1ABB	product page	View DS200TBOGG1ABB page
DS200SLCCG3AGH	product page	View DS200SLCCG3AGH page
DS200TCDAH1BHE	product page	View DS200TCDAH1BHE page
DS200TBCBG1AAA	product page	View DS200TBCBG1AAA page

ENGINEERING BOUNDARY

Confirm IC660BBA023, Genius I/O host, hardware revision, terminal or connector type, power and signal ranges, wiring, grounding, bus configuration, companion accessories and controlled commissioning results before service release.

Applications and Precautions

Common Applications

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.

Product 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.

IMPORTANT NOTICE

Confirm IC660BBA023, Genius I/O host, hardware revision, terminal or connector type, power and signal ranges, wiring, grounding, bus configuration, companion accessories and controlled commissioning results before service release.

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	IC660BBA023
Configuration	Energize in the prescribed sequence and review module, bus and point diagnostics.
Functional release	Complete a controlled signal or load test before returning the station to service.

Engineer FAQ

Q1 How is IC660BBA023 identified?

Match the complete catalog number and the 24/48 VDC Thermocouple Input Block designation.

Q3 What records are retained before removing IC660BBA023?

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

Q5 Which official values govern IC660BBA023?

Thermocouple inputs: 6; Input grouping: Three isolated groups of two; Supported types: J, K, T, E, B, R, S and N; Block power: 24/48 V DC.

Q7 Which diagnostics follow IC660BBA023 energization?

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

Q2 Which system accepts IC660BBA023?

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

Q4 How is IC660BBA023 isolated safely?

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

Q6 How is IC660BBA023 configuration restored?

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

Q8 What releases IC660BBA023 to service?

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

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