

IC660BBA021

24/48 VDC RTD Input Block

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

GE IC660BBA021 is a 24/48 VDC RTD Input Block for the Genius I/O. It provides the documented field interface or control function in the configured system.

STEP	GATE	ENGINEERING PURPOSE
01	IDENTIFY	Confirm article, host and hardware
02	ISOLATE	Secure power and stored energy
03	CONNECT	Restore documented interfaces
04	VALIDATE	Prove diagnostics and function

WORKBOOK PURPOSE

Field-ready identity, isolation, connection, commissioning and closeout records for this exact General Electric article.

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IC660BBA021

Installation Readiness Gate

Complete the identity, host-system and isolation checks before disturbing the installed hardware.

- 1

Confirm the full IC660BBA021 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.

Pre-Work Evidence

EVIDENCE ITEM	RECORDED VALUE
Complete article marking	IC660BBA021
Host / carrier	Genius I/O
Primary system role	Provides the documented 24/48 vdc rtd input block function
Acceptance boundary	Complete a controlled signal or load test before returning the station to service.
Source record	Genius I/O Discrete and Analog Blocks User's Manual

WORK AUTHORIZATION RECORD

Work order: _____

Drawing / revision: _____

Checked by: _____

Date: _____

Isolation and Access Register

CONTROL POINT	ENGINEER RECORD
Incoming supply	Isolated / proved
Stored energy	Discharged / proved
Field connections	Identified / protected
ESD control	Established / recorded

Pre-Work Documentation

DOCUMENT	ENGINEER RECORD
Connection photograph	Reference / file
Configuration backup	Reference / revision
Diagnostic baseline	Reference / result

Connection and Installation Sequence

INSTALLATION PRINCIPLE

Install IC660BBA021 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.

- 1

Verify each documented value for IC660BBA021 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.

Connection Record

CONNECTION GROUP	AS-FOUND / AS-LEFT RECORD	STATUS
Power / field connection	Reference / terminal	Checked
Signal / interface	Reference / connector	Checked
Ground / shield	Reference / point	Checked
Accessory / carrier	Reference / part	Checked

MODEL-SPECIFIC RELEASE LIMIT

Confirm IC660BBA021, 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.

Interface Acceptance Criteria

ACCEPTANCE ITEM	REQUIRED EVIDENCE
Identity	IC660BBA021
Host match	Genius I/O
Connection proof	Restore the approved terminal assembly, power grouping and configuration record.
Configuration proof	Energize in the prescribed sequence and review module, bus and point diagnostics.

Commissioning and Acceptance Record

Record each controlled verification step before the equipment returns to automatic operation.

NO.	ACCEPTANCE CHECK	RESULT	RECORD
1	Article and host identity	PASS / FAIL	Initial / date
2	Mechanical installation	PASS / FAIL	Initial / date
3	Power and field wiring	PASS / FAIL	Initial / date
4	Grounding and shielding	PASS / FAIL	Initial / date
5	Configuration restoration	PASS / FAIL	Initial / date
6	Signal or power-path response	PASS / FAIL	Initial / date
7	Diagnostics and alarms	PASS / FAIL	Initial / date
8	Final functional release	PASS / FAIL	Initial / date

Engineering Notes

RECORD AREA	ENGINEER ENTRY
As-found condition	
Corrective action	
As-left configuration	
Outstanding restriction	
Release authorization	

CONTROLLED COMMISSIONING

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

Diagnostics and Release Log

EVENT	ENGINEERING RECORD
Initial energization	Result / observation
Interface or signal response	Result / observation
Alarm and diagnostic review	Result / observation
Functional release	Name / date

ACCEPTANCE AND RELEASE EVIDENCE

Genius I/O station maintenance

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

Distributed I/O refurbishment

Uses exact IC660BBA021 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.

Maintenance Verification and Closeout

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Related Engineering Pages

MODEL	ENGINEERING ROLE	APTER POWER PAGE
IS200SRTDH2ACB	product page	View IS200SRTDH2ACB page
IS210AEDBH4A	product page	View IS210AEDBH4A page
IS200TDBSH2A	product page	View IS200TDBSH2A page
IS210AEPG2BCB	product page	View IS210AEPG2BCB page
IS215UCVEM01A	product page	View IS215UCVEM01A page
IC693ALG442C	product page	View IC693ALG442C page
IC693DNM200-BC	product page	View IC693DNM200-BC page
DS3800NERA1P1D	product page	View DS3800NERA1P1D page

MANUFACTURER SOURCE RECORD

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

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