

IC670MDL642

125 VDC Positive/Negative Input Module

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

GE IC670MDL642 is a 125 VDC Positive/Negative Input Module for the Field Control distributed 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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IC670MDL642

Installation Readiness Gate

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

- 1 Confirm the full IC670MDL642 catalog marking and installed Field Control distributed 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	IC670MDL642
Host / carrier	Field Control distributed I/O
Primary system role	Provides the documented 125 vdc positive/negative input module function
Acceptance boundary	Complete a controlled signal or load test before returning the station to service.
Source record	Field Control Distributed I/O and Control System I/O Modules 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 IC670MDL642 only in the documented Field Control distributed 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 IC670MDL642 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 IC670MDL642, Field Control distributed 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	IC670MDL642
Host match	Field Control distributed 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

Field Control distributed I/O station maintenance
Restores the documented 125 vdc positive/negative input module function in an engineered station.

Distributed I/O refurbishment
Uses exact IC670MDL642 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

Field Control distributed I/O station maintenance

Restores the documented 125 vdc positive/negative input module function in an engineered station.

Distributed I/O refurbishment

Uses exact IC670MDL642 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.

Related Engineering Pages

MODEL	ENGINEERING ROLE	APTER POWER PAGE
IC670ALG330	product page	View IC670ALG330 page
IC670ALG320	product page	View IC670ALG320 page
IC670ALG310	product page	View IC670ALG310 page
IC670ALG240	product page	View IC670ALG240 page
IC670ALG230	product page	View IC670ALG230 page
IC670ALG621	product page	View IC670ALG621 page
IC670ALG630	product page	View IC670ALG630 page
IC670ALG620	product page	View IC670ALG620 page

MANUFACTURER SOURCE RECORD

Field Control Distributed I/O and Control System I/O Modules User's Manual
GFK-0826J, June 2002

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