

# IC670MDL740

## 12/24 VDC Positive Logic Output Module

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

GE IC670MDL740 is a 12/24 VDC Positive Logic Output 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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IC670MDL740

## Installation Readiness Gate

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

- 1 Confirm the full IC670MDL740 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 | IC670MDL740                                                                        |
| Host / carrier           | Field Control distributed I/O                                                      |
| Primary system role      | Provides the documented 12/24 vdc positive logic output 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 IC670MDL740 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 IC670MDL740 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 IC670MDL740, 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            | IC670MDL740                                                                       |
| 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 12/24 vdc positive logic output module function in an engineered station.

**Distributed I/O refurbishment**  
Uses exact IC670MDL740 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 12/24 vdc positive logic output module function in an engineered station.

### Distributed I/O refurbishment

Uses exact IC670MDL740 identity when rebuilding the recorded field interface.

### Control-panel modernization

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

### Controlled recommissioning

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## Related Engineering Pages

| MODEL                        | ENGINEERING ROLE | APTER POWER PAGE                                       |
|------------------------------|------------------|--------------------------------------------------------|
| IC200UDR005-DJ               | product page     | <a href="#">View IC200UDR005-DJ page</a>               |
| A06B-6117-H209               | product page     | <a href="#">View A06B-6117-H209 page</a>               |
| PCIE-5565PIORC-100A00        | product page     | <a href="#">View PCIE-5565PIORC-100A00 page</a>        |
| A06B-6096-H106               | product page     | <a href="#">View A06B-6096-H106 page</a>               |
| A06B-6096-H104               | product page     | <a href="#">View A06B-6096-H104 page</a>               |
| MIVII3000E00HI00             | product page     | <a href="#">View MIVII3000E00HI00 page</a>             |
| IS215VPROH1BD                | product page     | <a href="#">View IS215VPROH1BD page</a>                |
| IS200VCMIH2CAA-IS215VCMIH2CA | product page     | <a href="#">View IS200VCMIH2CAA-IS215VCMIH2CA page</a> |

## 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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