

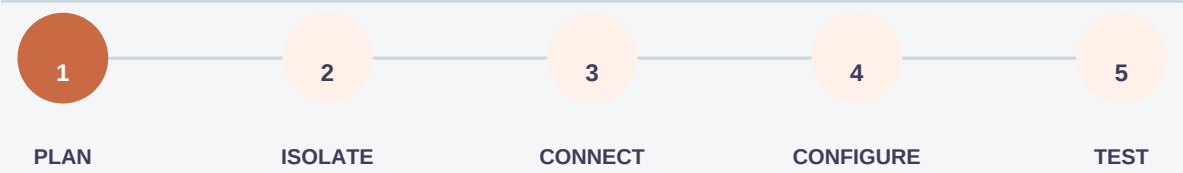
# IC695ALG616

## RX3i 16-Channel Analog Current/Voltage Input Module

CONTROLLED ENGINEERING COPY

Emerson IC695ALG616 is a non-isolated differential analog input module with sixteen single-ended or eight differential channels. It supports software-configurable current and voltage measurements in an RX3i Universal Backplane.

| INSTALLATION IDENTITY | REQUIRED VALUE                             |
|-----------------------|--------------------------------------------|
| Complete model        | IC695ALG616                                |
| Manufacturer          | Emerson                                    |
| System family         | PACSystems RX3i I/O                        |
| Record scope          | Installation, application and verification |



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# 01 PRE-INSTALLATION PLAN

- 1

Confirm the complete IC695ALG616 marking, module designation and documented RX3i installation position.
- 2

Place the controller, machine and connected process in the approved maintenance state.
- 3

Isolate controller and field power, prove the safe state and apply ESD controls before handling.
- 4

Record the slot, terminal block, every point assignment, common, shield and connected circuit before removal.
- 5

Verify the official electrical and configuration values documented for IC695ALG616; do not infer adjacent catalog executions.

## MATCHED HARDWARE

- IC695ALG616 with complete catalog identity
- Matched RX3i backplane or carrier
- Documented terminal block and field interfaces
- Approved project, diagnostics and acceptance record

## INSTALLATION CONTROL RECORD

| CONTROL ITEM       | REQUIRED RECORD                                                                               |
|--------------------|-----------------------------------------------------------------------------------------------|
| Identity           | IC695ALG616 recorded                                                                          |
| Physical interface | Installed terminal assembly, field power and point assignments matched to the as-found record |
| Configuration      | Approved hardware, firmware and engineering configuration restored                            |
| Functional proof   | Controlled test confirms high-density analog current and voltage signal acquisition           |

## 02 WIRING & INTERFACE CHECKS

| CHECK ITEM                 | REQUIRED VALUE                                           |
|----------------------------|----------------------------------------------------------|
| Input channels             | 16 single-ended or 8 differential                        |
| Current ranges             | 0–20 mA, 4–20 mA and $\pm 20$ mA                         |
| Voltage ranges             | $\pm 10$ V, 0–10 V, $\pm 5$ V, 0–5 V and 1–5 V           |
| Backplane                  | RX3i Universal Backplane                                 |
| Hot swap                   | Supported                                                |
| Configuration              | Software configurable; no jumpers                        |
| Calibration                | Full autocalibration                                     |
| Diagnostics                | Open-circuit detection, module and point-fault reporting |
| Alarms                     | High, low, high-high, low-low and rate-of-change         |
| Compatible terminal blocks | IC694TBB032, TBB132, TBS032 or TBS132                    |

### RELATED PRODUCT PAGES

1

[General Electric IC670ALG230](#)

2

[General Electric IC670MFP100](#)

3

[General Electric IC670FBI001](#)

4

[General Electric IC670GBI002](#)

5

[General Electric IC670GBI001](#)

6

[General Electric DS200SBCBG1ADC](#)

7

[General Electric IC670ALG320](#)

8

[General Electric IC670ALG310](#)

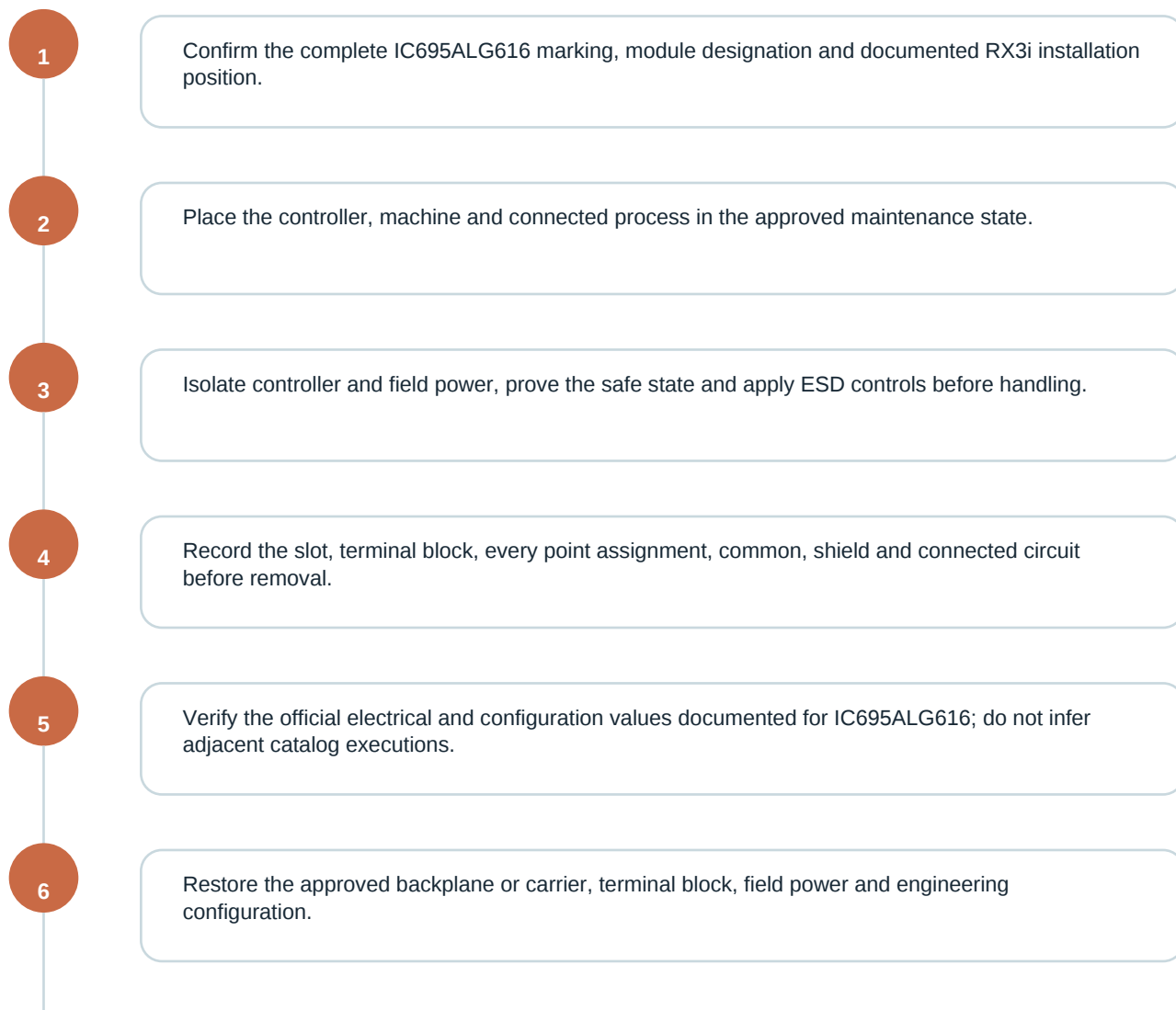
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[General Electric IC670ALG240](#)

### FIELD NOTE

Confirm IC695ALG616, the complete RX3i host, hardware revision, slot, terminal block, field power, wiring, grounding, shielding, configuration, diagnostics and controlled acceptance evidence before release.

## 03 COMMISSIONING WORKFLOW



### COMMISSIONING ACCEPTANCE EVIDENCE

| EVIDENCE ITEM      | ACCEPTANCE CONDITION                                                                          |
|--------------------|-----------------------------------------------------------------------------------------------|
| Identity           | IC695ALG616                                                                                   |
| Physical interface | Installed terminal assembly, field power and point assignments matched to the as-found record |
| Configuration      | Approved hardware, firmware and engineering configuration restored                            |
| Functional proof   | Controlled test confirms high-density analog current and voltage signal acquisition           |

# 04 RETURN-TO-SERVICE RECORD

- ☐ Verify the official electrical and configuration values documented for IC695ALG616; do not infer adjacent catalog executions.
- ☐ Restore the approved backplane or carrier, terminal block, field power and engineering configuration.
- ☐ Energize in the manufacturer sequence and review CPU, bus, module and channel diagnostics.
- ☐ Complete a controlled signal, output or controller-response test before service release.

## VERIFICATION RECORD

|                     |                                                                     |
|---------------------|---------------------------------------------------------------------|
| PRODUCT IDENTITY    | IC695ALG616                                                         |
| INSTALLED POSITION  | Documented PACSystems RX3i slot or distributed-I/O carrier position |
| VERIFICATION METHOD | Controlled inspection and functional test                           |
| RELEASE RECORD      | Final diagnostic state retained before service                      |

## FUNCTIONAL ACCEPTANCE CHECKLIST

- ☐ Verify the official electrical and configuration values documented for IC695ALG616; do not infer adjacent catalog executions.
- ☐ Restore the approved backplane or carrier, terminal block, field power and engineering configuration.
- ☐ Energize in the manufacturer sequence and review CPU, bus, module and channel diagnostics.
- ☐ Complete a controlled signal, output or controller-response test before service release.

## SOURCE IDENTIFIERS

Emerson Important Product Information GFK-2372U | Emerson official product and PACSystems documentation, accessed 24 September 2026