

IC694ALG223

RX3i 16-Channel Analog Current Input Module

Emerson IC694ALG223 is a 16-channel analog current input module for 0–20 mA and 4–20 mA signals. It provides 12-bit conversion for standard process-transmitter loops.

PRODUCT SNAPSHOT

BRAND
Emerson

FAMILY
PACSystems RX3i I/O

PART
IC694ALG223

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

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PRODUCT OVERVIEW

IC694ALG223 provides multi-channel 0–20 mA and 4–20 mA process-signal acquisition for a matched PACSystems RX3i I/O installation.

Exact catalog identity IC694ALG223

RX3i 16-Channel Analog Current Input Module

Documented role: multi-channel 0–20 mA and 4–20 mA process-signal acquisition

Controlled installation, diagnostics and functional verification

RELATED AFTER POWER PAGES

General Electric IC200UDR005-BD

General Electric
IS200VCMIH2BCD-IS215VCMIH2BC

General Electric IS200TDBTH2A

General Electric DS200TCCAG1AJB

General Electric
IS420UCSCH1A-G-V0-1-A

General Electric XMTC-62-11-0

General Electric IS200TREA1A

General Electric IS200WREAH1A

General Electric IS200TDBTH2ACD

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximitor Sensor	AISI 4140 target

ENGINEERING CONTEXT

The component remains matched to the documented RX3i slot or carrier, terminal assembly, field power and engineering configuration. Commissioning preserves the installed architecture and verifies controlled response.

TECHNICAL DATA

PARAMETER	VALUE
Input channels	16
Input ranges	0–20 mA and 4–20 mA
Resolution	12 bit
Conversion time	13 ms
Backplane consumption	120 mA at 5 VDC

PARAMETER	VALUE
User supply consumption	65 mA at 24 VDC
Approvals	UL and Class I Division 2
IPI	GFK-2655
CEP compatibility	Supported

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6 General Electric XMTC-62-11-0

7 General Electric IS200TREA1A

8 General Electric IS200WREA1A

9 General Electric IS200TDBTH2ACD

TECHNICAL NOTE

Install IC694ALG223 only in the documented PACSystems RX3i I/O position. Preserve the as-found terminal, point and configuration records; then verify diagnostics and multi-channel 0–20 mA and 4–20 mA process-signal acquisition under controlled conditions.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

PACSystems RX3i planned maintenance

Restores multi-channel 0–20 mA and 4–20 mA process-signal acquisition in the documented control

RX3i 16-Channel Analog Current Input Module replacement

Uses exact IC694ALG223 identity instead of an adjacent I/O or CPU execution.

Control-system refurbishment

Preserves the installed slot, terminal block, point map, power and engineering configuration.

Controlled recommissioning

Confirms diagnostics and the affected signal or control function before automatic operation.

PRODUCT PRECAUTIONS

- 1 Confirm the complete IC694ALG223 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 IC694ALG223; do not infer adjacent
- 6 Restore the approved backplane or carrier, terminal block, field power and engineering configuration.
- 7 Energize in the manufacturer sequence and review CPU, bus, module and channel diagnostics.
- 8 Complete a controlled signal, output or controller-response test before service release.

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7 General Electric IS200TREA1A

8 General Electric IS200WREA1A

9 General Electric IS200TDBTH2ACD

ENGINEER FAQ

Q1 How is IC694ALG223 distinguished from adjacent RX3i catalog numbers?

Match the complete IC694ALG223 marking, the RX3i 16-Channel Analog Current Input Module designation and its recorded slot or carrier position.

Q2 What function is assigned to IC694ALG223 in the documented system?

The module provides multi-channel 0–20 mA and 4–20 mA process-signal acquisition in the matched PACSystems RX3i I/O installation.

Q3 What is the official input channels for IC694ALG223?

Emerson documents input channels as 16; verify that value against the installed execution before work.

Q4 Which input ranges applies to IC694ALG223?

The official value is 0–20 mA and 4–20 mA. Preserve the corresponding power, signal or controller configuration.

Q5 How should the documented resolution be checked on IC694ALG223?

Confirm resolution is 12 bit and compare the as-found wiring or configuration with the approved record.

Q6 What evidence is needed for the conversion time of IC694ALG223?

Record the installed condition and verify the official value 13 ms during controlled commissioning.

Q7 What must be preserved before replacing IC694ALG223?

Record the slot or carrier, terminal assembly, point assignments, wiring, commons, shields, firmware or configuration state and active diagnostics.

Q8 How is IC694ALG223 accepted after installation?

Restore the documented hardware and point map, review module and controller diagnostics, and perform a controlled test of multi-channel 0–20 mA and 4–20 mA process-signal acquisition.

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SOURCE Emerson IC694ALG223 product record and RX3i CEP Manual | Emerson official product and PACSystems documentation, accessed 24 September 2026

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