

INDUSTRIAL AUTOMATION PRODUCT

IC695ALG600

Eight-channel Universal Analog Input Module

IC695ALG600 is a PACSystems RX3i I/O module documented for eight-channel universal analog input module. This Apter Power reference organizes identity, technical values, integration context and field verification in a model-specific format.

PRODUCT SNAPSHOT

MANUFACTURER

General Electric / Emerson

FAMILY

PACSystems RX3i I/O

MODEL

IC695ALG600

DOCUMENT

Product technical reference

REFERENCE PURPOSE

Use this document to prepare product identity checks, configuration review, field wiring verification and controlled commissioning. Follow the applicable manufacturer manual and the approved site procedure for actual work.

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IC695ALG600

2 Technical Specifications

Technical values below are limited to the named product record and its documented platform.

PARAMETER	TECHNICAL VALUE
Module role	Universal analog input acquisition
Input channels	8 configurable channels in two groups of four
Signal classes	Voltage, current, resistance, RTD and thermocouple
Current ranges	0-20 mA, 4-20 mA and +/-20 mA
Voltage families	Low-level mV and standard unipolar/bipolar voltage ranges
Resistance ranges	0-250, 500, 1000, 2000, 3000 or 4000 ohm
RTD families	Pt 385/3916, Ni 618/672, NiFe 518 and Cu 426
Thermocouples	B, C, E, J, K, N, R, S and T
Digital resolution	11 to 16 bits, selected by input configuration
CJC support	Two cold-junction-compensation channels
Power dissipation	5.4 W maximum
Host platform	PACSystems RX3i universal backplane

3 System Role and Architecture

IC695ALG600 performs its documented eight-channel universal analog input module role inside the PACSystems RX3i I/O platform. The following blocks separate product function, matched hardware and the controlled signal path.

UNIVERSAL ACQUISITION

Converts field voltage, current, resistance, RTD and thermocouple signals for the controller.

CHANNEL GROUPING

Organizes eight inputs in two groups of four for mixed-sensor measurement.

TEMPERATURE COMPENSATION

Works with the installed CJC arrangement for configured thermocouple channels.

CONFIGURATION DIAGNOSTICS

Reports module and terminal conditions for commissioning and maintenance review.

MATCHED SYSTEM COMPONENTS

- PACSystems RX3i universal backplane and controller
- Compatible removable terminal assembly
- IC695ACC600 cold-junction-compensation kit when required
- Configured field transmitters, RTDs, thermocouples or resistive sensors

CONTROLLED SIGNAL PATH



INTEGRATION RECORD

Configure every channel for the installed signal type, range, wiring and scaling. For three-wire RTD use, enable the approved lead-resistance-compensation setting before storing the hardware configuration.

4 Applications and Engineering Context

MIXED PROCESS MEASUREMENT

Consolidates voltage, current and resistance-based measurements in one RX3i rack position.

RTD TEMPERATURE ACQUISITION

Connects supported RTD families with the project-defined wiring and compensation.

THERMOCOUPLE MONITORING

Uses the approved terminal and CJC arrangement for configured thermocouple channels.

CURRENT-LOOP INSTRUMENTATION

Receives 0-20 mA, 4-20 mA or bipolar current signals from compatible transmitters.

ENGINEERING NOTE

Configure every channel for the installed signal type, range, wiring and scaling. For three-wire RTD use, enable the approved lead-resistance-compensation setting before storing the hardware configuration.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	Complete IC695ALG600 marking and revision recorded
Terminal	Assembly locked; keying and field labels match the drawing
Channel setup	Input type, range, scaling and alarm action restored
Compensation	CJC or RTD lead compensation matches the installed sensor
Functional proof	Representative values verified under controlled conditions

5 Engineering Precautions

- 1 Confirm the complete model marking and hardware revision before replacement.
- 2 Isolate rack power and field signal energy before removing the terminal assembly or module.
- 3 Record channel assignments, input types, ranges, scaling and alarm behavior before service.
- 4 Preserve shield, grounding, polarity and sensor-lead routing for every connected channel.
- 5 Match CJC hardware to the installed thermocouple terminal arrangement.
- 6 For three-wire RTD channels, verify lead-resistance compensation before storing configuration.
- 7 Lock the terminal assembly and review module/terminal diagnostics after power-up.
- 8 Validate representative values before returning the process to service.

RELATED SERIES PRODUCTS ON APTER POWER

MODEL	SERIES ROLE	APTER POWER PAGE
IC695ALG312	RX3i thermocouple input module	Open product page
IC695ALG508	RX3i RTD input module	Open product page
IC695ALG616	RX3i analog input module	Open product page

MANUFACTURER SOURCE RECORD

Emerson IC695ALG600 Product Page - PACSystems RX3i Universal Analog Input Module

PACSystems RX3i I/O Data Sheet - 00813-0100-0135

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