

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

GENERAL ELECTRIC

IC694ALG442

MIXED ANALOG I/O MODULE

Used with the applicable PACSystems RX3i configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: GE Intelligent Platforms PACSystems RX3i catalog, Analog Mixed I/O Modules, page 1.31



Analog Mixed I/O Modules (Input and Output)

The analog mixed modules (four in and two out) are available with or without advanced diagnostics. The advanced diagnostics includes alarms, open wire, rate of change, over range and under range. Additional features include 16 bit resolution, analog output clamp limits and output ramp mode option.

	IC694ALG542	IC694ALG442
Lifecycle Status	Active	Active
Module Type	Analog Combination 4 In and 2 Out with Advanced Diagnostics, Output Clamp and Ramp Control	Analog Combination 4 In and 2 Out
Backplane Support	No Backplane Restrictions	No Backplane Restrictions
Number of Slots Module Occupies on Backplane	1	1
Range	0 V to +10 V, -10 V to +10 V, 0-20 mA, 4-20 mA per Channel	0 V to +10 V, -10 V to +10 V, 0-20 mA, 4-20 mA per Channel
Channel-to-Channel Isolation	N/A	N/A
Number of Channels	4 in/2 out	4 in/2 out
Update Rate	2ms all channels	2ms all channels
Resolution	(Input)16 bit; 0 V to 10 V, 0.3125 mV/bit; -10 V to +10 V, 0.3125 mV/bit; 0-20 mA, 0.625 μ A 4-20 mA 0.5 μ A/bit (Output) 16 bit; 0 to 20 mA: 0.625 μ A; 4 to 20 mA: 0.5 μ A; -10 V to +10 V: 0.3125 mV; 0 to +10 V: 0.3125 mV	(Input)12 bit; 0 V to 10 V, 2.5 mV/bit; -10 V to +10 V, 5 mV/bit; 0-20 mA, 4-20 mA 5 μ A/bit (Output) 16 bit; 0.312 mV/bit; 4-20 mA 0.5 μ A/bit; 0-20 mA 0.625 μ A/bit
Accuracy	Current Input 0 to 20 mA $\pm$ 0.25% of full scale @ 25°C (77°F); $\pm$ 0.5% of full scale over specified operating temperature range Current Input 4 to 20 mA $\pm$ 0.25% of full scale @ 25°C (77°F); $\pm$ 0.5% of full scale over specified operating temperature range 4 to 20 mA Enhanced Mode $\pm$ 0.25% of full scale @ 25°C (77°F); $\pm$ 0.5% of full scale over specified operating temperature range Current Output $\pm$ 0.1% of full scale @ 25°C (77°F), typical $\pm$ 0.25% of full scale @ 25°C (77°F), maximum $\pm$ 0.5% of full scale over operating temperature range (maximum) Voltage Output $\pm$ 0.25% of full scale @ 25°C (77°F), typical $\pm$ 0.5% of full scale @ 25°C (77°F), maximum $\pm$ 1.0% of full scale over operating temperature range (maximum)	(Input) 0.25 μ A; at 25°C (77°F) (Output) 0-20 mA, 4-20 mA $\pm$ 0.1% at 25°C (77°F)
Input Impedence	Current mode - 250 ohms Voltage mode - 800 K ohms	Current mode - 250 ohms Voltage mode - 800 K ohms"
Input Filter Response	Current mode - 55 Hz Voltage mode - 55 Hz	Current mode - 38 Hz Voltage mode - 38 Hz
Maximum Output Load	Voltage: 5 mA (2 K ohms) Current Inductance:1 H (maximum)	Voltage: 5 mA (2 K ohms) Current Inductance:1 H (maximum) "
Output Load Capacitance	Voltage:1 μ F (maximum) Current: 2000 pF (maximum)	Voltage:1 μ F (maximum) Current: 2000 pF (maximum)"
Diagnostics	Under Range/Over Range, Open Wire, Short Circuit, Positive/Negative Rate of Change, High, High-High, Low, Low-Low	N/A
Internal Power Used	95 mA $\pm$ 64; 5 VDC; 150 mA external 24 VDC Isolated	95 mA $\pm$ 64; 5 VDC; 150 mA external 24 VDC Isolated
External Power Requirement	24VDC: Current: 5 μ A/V (typical), 10 μ A/V (maximum) Voltage: 25 mV/V (typical), 50 mV/V (maximum)	24VDC: Current: 5 μ A/V (typical), 10 μ A/V (maximum) Voltage: 25 mV/V (typical), 50 mV/V (maximum)
Connector Type	Terminal Block (20 screws), included with module.	Terminal Block (20 screws), included with module.