GE RX3i PacSystem Series Service Manual

IC695ALG600

1. Description

The IC695ALG600 is a PACSystem RX3i Programmable Automation Controller (PAC) universal analog Input module formerly manufactured by GE Intelligent Platforms (GE IP) now under Emerson Automation. This module features Eight (8) general purpose and Two (2) Cold Junction compensation (CJC) channels. This module has Two (2) groups of Four (4) input each and configurable to any

3. Product Information

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The IC695ALG600 is a universal analog input module from the PACSystems RX3i Programmable Automation Controller (PAC) platform. This module supports a variety of input signals such as voltage, current, resistance and supports Thermocouple and Resistance Temperature Detector (RTD). This module is now being manufactured by Emerson Automation, formerly by GE Intelligent Platforms (GE IP). The IC695ALG600 comes with Two (2) groups of Four (4) channels each and configurable to any combination on input signals. It supports 0–20 mA, 4–20 mA, +/-20 mA current signals; +50mV, +150 mV, 0–5 V, 1–5 V, 0–10 V, +10V voltage signals; 0 to 250 / 500 / 1000 / 2000 / 3000 / 4000 Ohms resistance signals; PT 385 / 3916, N 618 / 672, NiFe 518, CU 426 RTD sensors; B, C, E, J, K, N, R, S, T Thermocouple inputs. The IC695ALG600 is installed to an RX3i universal backplane and requires at least version 2.80 firmware version or later. This module is configured using the Proficy Machine Edition (PME) version 5.0 SP1A LD-PLC Hotfix 1 or later. For termination of signals, this module requires use of Box-style (IC694TBB032), Extended Box-style (IC694TBB132), Spring-style (IC694TBS032), or Extended Spring-style (IC694TBS132) Terminal Block. Extended terminal blocks are recommended as these terminal blocks has slightly larger outer cover which can accommodate wires with thicker insulation and to accommodate shield wires. This module supports flash memory for future upgrades and status LED status indicators such as Module Status, Field Status, and TB LED indicators.

The GE Fanuc IC695ALG600 Resistance Temperature Detector (RTD) input module has a power dissipation of 5.4 Watts maximum and internal power ratings of 350 milliamps at 3.3 Volts and 400 milliamps at 5 Volts 400. The input channels are divided into 2 groups of 4. Each channel can be independently set up with the Machine Edition software to operate at a voltage of +/-50 millivolts, +/-150 millivolts, 0 to 5 Volts, 1 to 5 Volts, 0 to 10 Volts DC, +/-10 Volts DC, or a current of 0 to 20 milliamps, 4 to 20 milliamps, or +/-20 milliamps. The thermocouple inputs types include the B, C, E, J, K, N, R, S, or T types, the resistance inputs are rated at 0 to 250, 500, 1000, 2000, 3000, or 4000 ohms, and 8 channels that can be voltage, resistance inputs, thermocouple, and current inputs. The GE Fanuc IC695ALG600 RTD input module has a configurable input filter with the following possible frequencies: 8 Hertz, 12 Hertz, 16 Hertz, 40 Hertz, 200 Hertz, or 1000 Hertz. It also has a maximum RTD cable impedance rating of 25 ohms. The module is found in the RX3i universal backplane, and it cannot be located in the remote or expansion backplanes. It has a Module OK LED that displays the status of the module. The Field Status LED shows faults on one channel minimum or errors on a terminal block. The Terminal Block LED shows the absence or presence of a terminal block. The IC695ALG600 module has an operating temperature range of 0 to 60 degrees Celsius (32 to 140 degrees Fahrenheit) and a storage temperature range of -40 to 85 degrees Celsius (-40 to 185 degrees Fahrenheit).