GE Series 90-70 Series Service Manual

IC697ALG321

1. Description

The IC697ALG321 Analog Input Module is a 4-channel analog voltage input module made by GE Fanuc. It runs with -10 to +10 Volts, it has 16 bits of resolution, and it has a 2-millisecond conversion rate.

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Series 90-70**
Part	**Number IC697ALG321**
Product	**Description Analog Input Module**
No.	**of Inputs 4 Inputs**
Voltage	**Input Range -10 to +10 Volts**
Conversion	**Rate 2 ms**
Resolution	**16 bits with 14-bit monotonicity**
Calibration	**Factory set at 10 Volts +/- 2 mV**
Input	**Impedance 250 Ohms**
Power	**Requirement 112 milliamps at +5 Volts**
Weight	**(approx.) 4 Pounds**
The	**IC697ALG321 Analog Input Module is a high-level analog voltage input module from GE Fanuc. It belongs to the Series 90-30 product line of GE PLCs or Programmable Logic Controllers. It allows for both unipolar and bipolar voltage input ranges. The users can also set alarm limits for both ranges such as the alarm high limit or the alarm low limit. The MS-DOS configuration software provides all the facilities needed to configure the module parameters for their hosts systems such as channel configuration, mode selection, alarm settings, range selection, and I/O scan set configuration facilities. The converted analog data is stor**

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Technical specifications for IC697ALG321

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Series Series 90-70

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Conversion Rate 2 ms

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The IC697ALG321 Analog Input Module has an input filter response frequency of 41 Hertz for the single-ended mode and 82 Hertz for the differential mode. The received data signal will be converted to a digital signal through a 12-bit converter so that it can be processed in the CPU of the PLC. In order to gain resolution and accuracy, this converted data will also be placed inside a 16-bit WORD format. The CPU does not change any of the received values from the inputs and it directly converts and processes the signal as required before placing inside the WORD format. The users can use the interface provided by the Logicmaster software or a handheld programmer to perform the basic configuration of the module easily. Note that the handheld programmer does not provide the facilities to configure the scanned channels that are active. All the configuration data will be saved in the EEPROM of the CPU in the PLC.