GE Versamax Series Service Manual

IC200ALG230

1. Description

The IC200ALG230 is a VersaMax analog input module. This module is formerly manufactured by GE Fanuc Automation, now under Emerson Automation. This analog input module features Four (4) analog inputs configurable for voltage or current signals specifically, 4-20 mA current input signal and -10VDC / +10 VDC voltage input signals with channel resolution of 12 bits.

2. Specifications

Specification	Value
Manufacturer	GE Fanuc
Series	Versamax
Manufacturer	GE Fanuc (Formerly); Emerson Automation (Current)
Part	Number IC200ALG230
Series	Versamax
Product	Type Analog Input Module
Product	Description
Voltage	Type Bipolar or Unipolar
No	of Channels Four (4) analog input
Default	Voltage Type Bipolar
Analog	input signal Analog input signal
Number	of Inputs 4
Analog	input resolution 12 bits
Input	Type Single-Ended
Response	times 5.0 ms
Configuration	Type 2 Jumpers
Update	rate 0.4 ms
Backplane	Current 125 milliamps at 5 Volts Output
Backplane	current consumption 125 mA at 5VDC
Configuration	parameters Range select, Mode select
Diagnostics	Loss of internal power
LED	indicators INT PWR LED; OK
Reaction	to module error Hold last state; Go to pre-defined value
Optical	isolation 250VAC continuous; 1500VAC for 1 minute
The	IC200ALG230 is an analog input module from the Versamax modular I/O and control platform. This module is a compact analog input module featuring Four (4) individually configurable vo

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Technical specifications for IC200ALG230

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LED indicators INT PWR LED; OK

Reaction to module error Hold last state; Go to pre-defined value

Optical isolation 250VAC continuous; 1500VAC for 1 minute

The IC200ALG230 is an analog input module from the Versamax modular I/O and control platform. This module is a compact analog input module featuring Four (4) individually configurable voltage or current analog input channels. This module supports interfacing of analog signals, particularly unipolar 0 to 10VDCand bipolar +/-10 VDC voltage signals, and 4-20 mA current signal. The IC200ALG230 is provided with Two (2) status LED indicators for locally reporting the operational state of the module, Specifically, INT POWER LED indicating supply of internally generated field power and OK LED indicating backplane power being actively supplied to the module. Two (2) jumpers are present to this analog input module for setting the mode of operation of the module whether voltage or current and unipolar of bipolar data. The IC200ALG230 has a built-in Analog to Digital converter with a resolution of 4?A = 8 counts when configured for Current operation and 2.5 mV = 8 counts for voltage configuration. This module has a typical response time of 0.4 ms and a filter response of 5.0 ms. The input data of this module is configurable to be held to the last state or go to a defined value when module error is detected. The IC200ALG230 can be installed with an auxiliary I/O terminal for wiring of signals. Terminal part numbers are IC200TBM001, 002, or 005. Additionally, terminal style I/O carrier may also be used with catalog number IC200CHS001, 002, or 005, Compact Terminal-style I/O Carrier with catalog number IC200CHS022, 025 and connector style I/O carrier with part number IC200CHS003.

The GE Fanuc IC200ALG230 module is part of the Versamax product line. It is an analog input module that is compatible with either 4 current inputs or to 4 voltage inputs. The IC200ALG230 analog input module does not need an external power supply because it draws its power from the power supply in the Versamax PLC backplane. It is designed to provide an interface in a Versamax PLC or programmable Logic Controller system in a commercial or industrial setting. All 4 of its inputs are single-ended and they are arranged in 1 group. The IC200ALG230 analog input module consumes 125 milliamps of backplane current at 5 Volts of output voltage. Its input voltage is +/- 10 Volts DC bipolar voltage by default but it can also be configured to have a unipolar voltage of 0 to 10 Volts. The configuration of the GE Fanuc Versamax IC200ALG230 analog input module can be done with the 2 jumpers found on the carrier terminals. These jumpers can be used to configure the module to operate in either the current or the voltage mode and to configure the module to operate in the unipolar or bipolar mode within the voltage mode if the voltage mode is selected. The jumper that is used to select the current or voltage mode on the IC200ALG230 analog input module allows the module to accept 4 to 20 milliamps of input current. For safety, the cables for the IC200ALG230 analog input module should be grounded at the source device when possible, and at least the cable shield should be grounded at the source device or even at the I/O module when grounding the cable is not possible.