GE Versamax Series Service Manual

IC200ALG260

1. Description

The IC200ALG260 is a VersaMax analog input module. This module is formerly manufactured by GE Fanuc Automation, now under Emerson Automation. This analog input module features Eight (8) 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 IC200ALG260**
Series	**Versamax**
Product	**Type Analog Input Module**
Product	**Description Analog input module**
Number	**of Inputs 8**
No	**of Channels Eight (8) analog input**
Input	**Type Single-Ended**
Analog	**input signal Analog input signal**
LED	**Indicators 2 (The "OK" and the "INT PWR" LED**
Analog	**input resolution 12 bits**
Voltage	**Type Unipolar or Bipolar**
Response	**times 5.0 ms**
Operating	**Modes Voltage or Current**
Update	**rate 0.4 ms**
Filter	**Response Time 5 milliseconds**
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 minut**
The	**IC200ALG260 is an analog input module from the Versamax I/O platform. This module is an Eight (8) channel input module that accepts unipolar and bipol**

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Technical specifications for IC200ALG260

Manufacturer GE Fanuc

Series Versamax

Manufacturer GE Fanuc (Formerly); Emerson Automation (Current)

Part Number IC200ALG260

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Number of Inputs 8

No of Channels Eight (8) analog input

Input Type Single-Ended

Analog input signal Analog input signal

LED Indicators 2 (The "OK" and the "INT PWR" LED

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Response times 5.0 ms

Operating Modes Voltage or Current

Update rate 0.4 ms

Filter Response Time 5 milliseconds

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 minut

The IC200ALG260 is an analog input module from the Versamax I/O platform. This module is an Eight (8) channel input module that accepts unipolar and bipolar voltage signals specifically, 0 to 10V and +/-10VDC respectively, and current input signals such as 4-20 mA. This module converts the accepted signal to digital data with a resolution of 12 bits. This module operates without an external power supply. It has an optical isolation rating of 250VAC continuous and 1500VAC for a 1-minute duration. Available LED status indicators to the IC200ALG260 to include Internal Power LED (INT PWR LED) and OK LED. It has maximum backplane current consumption of 130 mA at 5 VDC with built-in Loss of internal power diagnostic capability. Configurable parameters to this module include Range select and Mode Select. This module has a maximum input impedance of 126 kOhms in voltage mode and a maximum of 200 Ohms when in current mode. This module has an accuracy of +/-0.3% typical of full scale, +/-0.5% maximum of full scale when operating at 25 Degree Celsius, and +/-1% maximum of full scale at 0-60 Degree Celsius with a resolution of 4?A = 8 counts in the current mode; 2.5 mV = 8 counts in Bipolar, voltage mode and 2.5 mV = 8 counts in unipolar, voltage mode. The module’s channel-to-channel crosstalk rejection is a minimum of 30 dB. This module supports a single-ended wiring configuration wherein analog measurement is taken in reference to the ground wire. It has lesser resistance to Electromagnetic Interference (EMI) therefore, appropriate noise cancellation and signal conditioning are recommended prior to signal termination.

The IC200ALG260 input module is a GE Fanuc analog input module from the GE Versamax PLC series that can act as an interface device for either 8 current inputs or 8 voltage inputs. All 8 of its inputs are single-ended and they are arranged in a single group. The IC200ALG260 analog input module consumes 130 milliamps of maximum current from the backplane at a voltage rating of 5 Volts. The module is powered by the power supply in the backplane. It does not need power from an external source unless it has transceiver devices connected to it. This module also does not have a thermal derating feature. There are 2 LED indicators on the IC200ALG260 analog input module. One of them is a green INT PWR LED that shows the operators that there is field power for the analog field-side circuits, and the other is a green OK LED that shows the operators that the module has backplane power. The field power for the field-side circuits in the GE Fanuc Versamax IC200ALG260 analog input module is generated internally. The module has a filter response time of 5 milliseconds when it is operating in the voltage mode and also when it is operating in the current mode. The IC200ALG260 analog input module operates in the voltage mode by default, but it can be configured to operate in the current mode as well if the PLC or the application that it is intended for requires it. The module’s current rating is 4 to 20 milliamps and its input voltage rating is either the default -10 to 10 Volts DC bipolar voltage or the configurable 0 to 10 Volts of unipolar voltage.