GE Versamax Series Service Manual

IC200ALG266

1. Description

The IC200ALG266 is a 15-Point Analog current input module from VersaMax I/O series formerly produced by GE Intelligent Platforms, now under Emerson Automation. This module has Fifteen (15) single-ended input channels that accept -10 to +10 VDC input signals with resolution of 15 bits and maximum update rate of 7.5 ms.

2. Specifications

Specification	Value
Brand	GE Fanuc
Series	Versamax
Manufacturer	Emerson Automation / GE Fanuc (former)
Manufacturer	GE Intelligent Platforms (Former); Emerson Automation (Current)
Part	Number IC200ALG266
Series	VersaMAx
Series	VersaMax
Type	Input Module
Product	Description 15-Point Analog voltage input module
Part	Number IC200ALG266
Channel	15 Single ended one group
No	of Channels 15, single-ended inputs
Wiring	configuration Single-ended
Isolation	250VAC continuous; 1500VAC for 1 minute
No.	of groups 1 group
Input	signal, nominal -10 VDC to +10 VDC
LED	Indicators OK LED
Compatible	signals -10 VDC to +10VDC
Analog	resolution 15 bits
Backplane	Current Consumption 5V: 100 mA maximum
Resolution	15 bit
Digital	resolution 0.3125 mV = 1 count
Diagnostics	Yes
External	Supply Voltage Range None
Input	impedance 100K Ohms
Input	Current 4 to 20 mA
Internal	Supply Voltage 5 VDC from PLC backplane
Filter	response (3dB Corner Freq) 32 Hz +/-20%
Input	Impedance 100 ohms
Backplane	current 150 mA
Update	rate 7.5 ms, maximu

3. Product Information

The IC200ALG266 is a 15-Point Analog current input module from VersaMax I/O series formerly produced by GE Intelligent Platforms, now under Emerson Automation. This module has Fifteen (15) single-ended input channels that accept -10 to +10 VDC input signals with resolution of 15 bits and maximum update rate of 7.5 ms.

Technical specifications for IC200ALG266

Brand GE Fanuc

Series Versamax

Manufacturer Emerson Automation / GE Fanuc (former)

Manufacturer GE Intelligent Platforms (Former); Emerson Automation (Current)

Part Number IC200ALG266

Series VersaMAx

Series VersaMax

Type Input Module

Product Description 15-Point Analog voltage input module

Part Number IC200ALG266

Channel 15 Single ended one group

No of Channels 15, single-ended inputs

Wiring configuration Single-ended

Isolation 250VAC continuous; 1500VAC for 1 minute

No. of groups 1 group

Input signal, nominal -10 VDC to +10 VDC

LED Indicators OK LED

Compatible signals -10 VDC to +10VDC

Analog resolution 15 bits

Backplane Current Consumption 5V: 100 mA maximum

Resolution 15 bit

Digital resolution 0.3125 mV = 1 count

Diagnostics Yes

External Supply Voltage Range None

Input impedance 100K Ohms

Input Current 4 to 20 mA

Internal Supply Voltage 5 VDC from PLC backplane

Filter response (3dB Corner Freq) 32 Hz +/-20%

Input Impedance 100 ohms

Backplane current 150 mA

Update rate 7.5 ms, maximum

Accuracy 0.3% typical, 1% maximum

Update Rate 7.5 ms all channels

Current Draw 150 mA, maximum

Resolution 15 Bits

Actual resolution: 0.3125mV = 1 count

Input grouping Single group

Module width Single slot

Diagnostics Loss of internal power; A/D conversion error

The IC200ALG266 is a VersaMax analog input module. This module is mainly used in distributed I/O architecture and utilized to interface analog measuring instruments and feedback devices that generate signal voltage range of 10 VDC to + 10 VDC. This input module comes with an analog to digital signal conversion resolution of 15-bits or 0.3125mV per count. The IC200ALG266 is powered by the backplane power supply with current draw of 150 mA, maximum. It does not require an external power supply to activate each input channels as the embedded Fifteen (15) analog input channels support sink wiring configuration. This module has accuracy of +/-0.3% typical of full scale, +/-0.5% maximum of full scale at operating temperature of 25 Degrees Celsius and +/-1% maximum of full scale at 60 Degrees Celsius. The individual channels of the IC200ALG266 is capable of detecting failure in the conversion of the analog signal. This happens when the AD converter delivers an output that is greater than 6% of the full-scale value. This error is reported to the CPU which can be represented to partner Human Machine Interface (HMI) and Supervisory Control and Data Acquisition (SCADA) systems as Fault or Bad signal quality. The IC200ALG266 has software configurable input state in reaction to CPU stop or module error. These options include default or last state operation which is applicable in implementing safe start-up especially in the event of power interruptions. Each input channels has filter response of 32 Hz +/-20% with channel update rate of 7.5 ms.

The GE Fanuc Automation IC200ALG266 module is a certified Versamax input module that has been manufactured by GE Fanuc Automation. This module has been designed to provide an interface to different input devices. This interface is achieved through connections to the 15 input channels that are included in the module. These inputs are analog and the module comes with an LED that indicates when the drive has been properly configured and able to operate and this LED is the OK LED. The GE Fanuc Automation IC200ALG266 Versamax input module comes with protective features that ensure safe operations and help to extend the life of both the module and the inputs. These protective features protect the module from overvoltage levels higher than 30 Volts DC. The operations of each input are individual operations, meaning that if one of them is in a fault state, it will not affect the functioning of the rest of the inputs. The GE Fanuc Automation IC200ALG266 Versamax input module operates with a backplane current consumption rating of 50 milliamps to 100 milliamps. It does not operate with an external power supply. The IC200ALG266 Versamax input module has a resolution of 15 bits, although if it exposed to radiofrequency interference, it might need to be derated by up to +/-2%. The module comes filtered with channel update rate of 7.5 milliseconds. The input current range of the module goes from

-10 VD to + 10 VDC.