GE Versamax Series Service Manual

IC200ALG320

1. Description

The IC200ALG320 is a 4-Point Analog Current Output Module from VersaMax I/O series of formerly by GE Intelligent Platforms, now under Emerson Automation. This module has Four (4) single-ended output channels that generates 4-20 mA output signal with resolution of 4 µA and maximum update rate of 0.3 ms. It requires an external power supply ranging 18-30VDC or 9.6 to 15 VDC.

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Versamax**
Manufacturer	**GE Intelligent Platforms (Former); Emerson Automation (Current)**
Part	**Number IC200ALG320**
Series	**VersaMax**
Type	**Output module**
Part	**Number IC200ALG320**
Outputs	**4 analog current-sourcing outputs**
Product	**Description 4-Point Analog Current Output Module**
Voltage	**18 to 30 VDC**
Wiring	**configuration Single-ended**
Current	**Consumption 240 mA max.**
Output	**signal, nominal 4-20 mA**
Output	**Current 4 to 20 mA**
Analog	**resolution 12 bits**
Accuracy	**(Full Scale) 0.3% typical and +/- 1% maximum**
External	**Power supply 18-30VDC; 9.6 to 15 VDC**
Resolution	**8 counts**
Nominal	**Supply voltage 12 / 24 VDC**
Update	**Rate 0.3 ms, maximum**
Current	**Draw 50 mA, maximum**
LEDs	**2**
Output	**grouping Single group**
Diagnostics	**Tools Yes**
Output	**wiring Single-ended**
Diagnostics	**Loss of user side power**
Output	**default Hold last state; 4 mA**
The	**IC200ALG320 is an analog output module that belongs to the VersaMax family of distributed I/O modules formerly produced by GE Intelligent Platforms, now under Emerson**

3. Product Information

The IC200ALG320 is a 4-Point Analog Current Output Module from VersaMax I/O series of formerly by GE Intelligent Platforms, now under Emerson Automation. This module has Four (4) single-ended output channels that generates 4-20 mA output signal with resolution of 4 µA and maximum update rate of 0.3 ms. It requires an external power supply ranging 18-30VDC or 9.6 to 15 VDC.

Technical specifications for IC200ALG320

Brand GE Fanuc

Series Versamax

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

Part Number IC200ALG320

Series VersaMax

Type Output module

Part Number IC200ALG320

Outputs 4 analog current-sourcing outputs

Product Description 4-Point Analog Current Output Module

Voltage 18 to 30 VDC

Wiring configuration Single-ended

Current Consumption 240 mA max.

Output signal, nominal 4-20 mA

Output Current 4 to 20 mA

Analog resolution 12 bits

Accuracy (Full Scale) 0.3% typical and +/- 1% maximum

External Power supply 18-30VDC; 9.6 to 15 VDC

Resolution 8 counts

Nominal Supply voltage 12 / 24 VDC

Update Rate 0.3 ms, maximum

Current Draw 50 mA, maximum

LEDs 2

Output grouping Single group

Diagnostics Tools Yes

Output wiring Single-ended

Diagnostics Loss of user side power

Output default Hold last state; 4 mA

The IC200ALG320 is an analog output module that belongs to the VersaMax family of distributed I/O modules formerly produced by GE Intelligent Platforms, now under Emerson Automation. This module is typically used as part of the distributed or remote I/O network, commonly implemented medium to large control systems, eliminating long signal runs and contributes to building a robust and scalable control system. The IC200ALG320 comes with Four (4) single-ended analog output channels that generate an output current signal of 4-20 mA with resolution of 4 µA. It can be used particularly in automatic closed closed loop control systems as well as manually controlled or open loop control system for analog signal following devices such as modulating valves, dampers, louvers, positioners, Variable Frequency Drives (VFD) and similarly operating devices. It may also be used for signal re-transmission purposes such as providing an output signal that is representative of an internally calculated variable within a Programmable Logic Controller (PLC), for termination to a signal splitter or signal isolators, panel meters for local readout, data loggers for historization, single loop controllers or other PLCs to implement advanced and complex architecture of cascaded controllers. The IC200ALG320 is installed with Two (2) status LED indicators such as a FLD PWR LED to indicate presence of field power and OK LED for depicting continuous supply of backplane power. This module also features detection of user side power and configurable output default in reaction to CPU stoppage or module fault such as Hold Last State or output downscaled to 4 mA.

The IC200ALG320 module is an analog output module that has been designed by GE Fanuc Automation and included in the Versamax series of I/O modules. This specific module comes equipped with 4 analog current-sourcing outputs that are rated within the current range of 4 to 20 milliamps. These outputs provide an average current rating of 20.38 milliamps each. This module can operate only when connected to the backplane power, and the outputs require an external power supply of 18-30VDC or 9.6 to 15 VDC. The processing of the module is ultimately performed by the CPU or main network interface unit that is attached to the module. The GE Fanuc Automation IC200ALG320 analog output module comes with 2 different LED indicators that show the presence of the user-side power for the analog circuits and an OK indicator that lights up when the backplane power is present in the module. The GE Fanuc Automation IC200ALG320 analog output module includes diagnostics tools that create reports that show the loss of the user side power fault for field-side circuits. The module is set up with a jumper that helps the outputs hold their last states. This feature is important when the power is interrupted. The module needs to remain connected to the power to avoid data losses and it needs to be inspected before its installation. The GE Fanuc Automation IC200ALG320 analog output module has isolation between the user input and the logic and frame ground that is rated at 250 Volts AC continuous and 1500 Volts AC for 1 minute.