MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

GENERAL ELECTRIC

IC200ALG321

ANALOG VOLTAGE OUTPUT MODULE

Used with the applicable VersaMax configuration.

REFERENCE PACKAGE

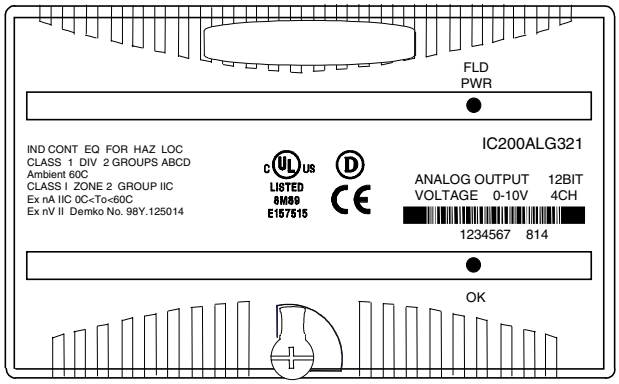
OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: GE Fanuc GFK-1504K, VersaMax Analog Output Modules

IC200ALG321
Analog Output Module, 12 Bit Voltage 0 to 10VDC 4 Channels

Analog output module IC200ALG321 provides four analog voltage outputs. The output range is 0 to +10VDC



An external 24V power supply is required for the outputs.

Intelligent processing for this module is performed by the CPU or Network Interface Unit. The module receives 4 words of analog output data.

LED Indicators

The green FLD PWR LED indicates the presence of user-side power for the analog field-side circuits.

The green OK LED is on when backplane power is present to the module.

Diagnostics

The module reports a Loss of User Side Power fault for field-side circuits.

Configuration Parameters

The module is easily set up with a jumper for the outputs to either hold their last states or default to 0V if backplane power or communications are interrupted or the PLC is stopped. External user power must remain uninterrupted.

Outputs remain in their default or last state until the module receives different output data from the backplane, or until field power is removed.

IC200ALG321
Analog Output Module, 12 Bit Voltage 0 to 10VDC 4 Channels

Module Specifications

Module Characteristics	
Channels	4 single-ended, one group
Module ID	FFFF9040
Isolation: User input to logic (optical) and to frame ground Group to group Channel to channel	 250VAC continuous; 1500VAC for 1 minute Not applicable None
LED indicators	FLD PWR LED indicates field power is present OK LED indicates backplane power is present
Backplane current consumption	5V output: 50mA maximum
Thermal derating	None
Configuration parameters	Output default
Diagnostics	Loss of User Side Power
External Power Supply	
Recommended range	+18 to +30VDC (including ripple)
Current consumption at recommended range	160mA max.(including load current)
12V operation range	9.6 to 15VDC, 12VDC nominal (including ripple)
Current consumption at 12V range	210mA max.(including load current)
Output Characteristics	
Output voltage	0 to 10.24VDC
Load characteristics: Resistive Capacitive	 5000 Ohms minimum 1.0µF maximum
Accuracy at 25 degrees C* Accuracy at 0 to 60 degrees C	+/- 0.3% typ. of full scale, +/- 0.5% max. of full scale +/-1% maximum of full scale
Resolution	2.5mV = 8 counts
Update rate per module	0.3ms maximum
Channel-to-channel crosstalk rejection	70dB minimum
Output default	Hold Last State (default) 0 (configurable)

* In the presence of severe RF interference, (IEC 1000-4-3, 10V/m), accuracy may be degraded to +/-1%.

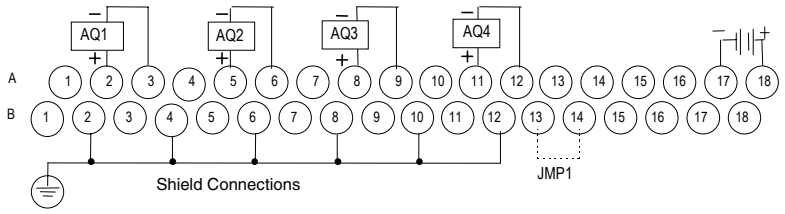
IC200ALG321
Analog Output Module, 12 Bit Voltage 0 to 10VDC 4 Channels

Field Wiring

Terminal	Connection	Terminal	Connection
A1	No connection	B1	No connection
A2	V OUT 1	B2	Shield Termination Point
A3	RET 1	B3	No connection
A4	No connection	B4	Shield Termination Point
A5	V OUT 2	B5	No connection
A6	RET 2	B6	Shield Termination Point
A7	No connection	B7	No connection
A8	V OUT 3	B8	Shield Termination Point
A9	RET 3	B9	No connection
A10	No connection	B10	Shield Termination Point
A11	V OUT 4	B11	No connection
A12	RET 4	B12	Shield Termination Point
A13	No connection	B13	JMP1A
A14	No connection	B14	JMP1B
A15	No connection	B15	No connection
A16	No connection	B16	No connection
A17	Field Return	B17	No connection
A18	Field Power	B18	No connection

Wiring Connections for Carriers with Two Rows of Terminals

IC200CHS002, 005
IC200CHS012, 015



Wiring Connections for Carriers with Three Rows of Terminals

IC200CHS001, 022, 025
IC200CHS011

