

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

GE VERSAMAX

IC200ALG327

12-CHANNEL ANALOG VOLTAGE OUTPUT MODULE

Used with the applicable VersaMax analog I/O configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: GE official manufacturer documentation

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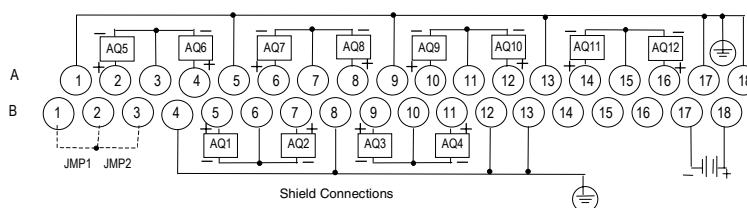
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IC200ALG327**Analog Output Module, 13 Bit Voltage 12 Channels****Field Wiring**

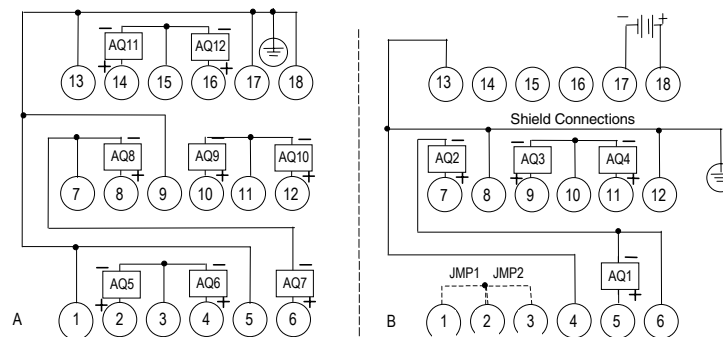
Terminal	Connection	Terminal	Connection
A1	Shield Termination Point	B1	JMP 1 (Range)
A2	V OUT 5	B2	Jumper (1-2) RTN
A3	RET (5-6)	B3	JMP 2 (Hold)
A4	V OUT 6	B4	Shield Termination Point
A5	Shield Termination Point	B5	V OUT 1
A6	V OUT 7	B6	RTN (1-2)
A7	RTN (7-8)	B7	V OUT 2
A8	V OUT 8	B8	Shield Termination Point
A9	Shield Termination Point	B9	V OUT 3
A10	V OUT 9	B10	RTN (3-4)
A11	RTN (9-10)	B11	V OUT 4
A12	V OUT 10	B12	Shield Termination Point
A13	Shield Termination Point	B13	Shield Termination Point
A14	V OUT 11	B14	No connection
A15	RTN (11-12)	B15	No connection
A16	V OUT 12	B16	No connection
A17	Shield Termination Point	B17	Field Return
A18	Shield Termination Point	B18	Field Power

**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



IC200ALG327

Analog Output Module, 13 Bit Voltage 12 Channels

Jumper Selection

Jumpers on the carrier can be used to select the output range and output default mode.

Range Jumper

If no jumper is installed on pins B1 and B2, outputs are configured for the bipolar range of -10V to $+10\text{V}$. With a jumper installed, the outputs are configured for the unipolar range of 0V to $+10\text{V}$.

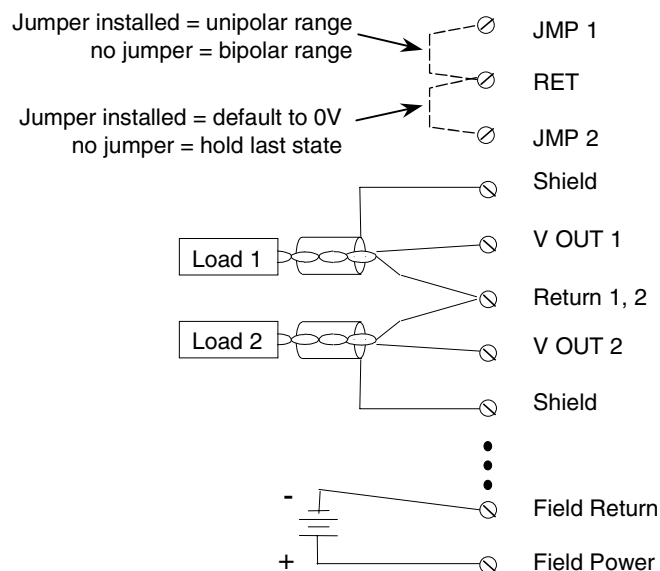
Range Jumper (JMP 1)	Range
None	-10V to $+10\text{V}$
Installed	0V to $+10\text{V}$

Hold Jumper

If no jumper is installed on pins B2 and B3, outputs hold their last state (the last commanded value from the backplane) if backplane power or communications are interrupted or the PLC is stopped. With a jumper installed, outputs default to 0V . This should only be changed with the field power and backplane power removed.

Hold Jumper (JMP 2)	Output Default
None	Hold Last State
Installed	0V

Wiring Example



IC200ALG327
Analog Output Module, 13 Bit Voltage 12 Channels**Cable Shield Connections**

Shielded twisted pair cable is recommended for all of the analog channel connections. If the module is installed on a Terminal-style I/O Carrier (IC200CHS001, 002, or 005) or a Compact Terminal-style I/O Carrier (IC200CHS022, 025), the cable shield can be connected directly to the carrier per the Field Wiring Table. An Auxiliary I/O Terminal Strip (IC200TBM001, 002, or 005) can also be added to the Terminal-style I/O Carriers to aid in grounding shields. Be sure to ground the Auxiliary I/O Terminal Strip as well if you plan to use it for this purpose.

If the module is installed on a Connector-style I/O Carrier (IC200CHS003), the cable shield can be connected directly to an Interposing Terminal (IC200CHS011, 012, 015). Be sure to ground the Interposing Terminal. It is recommended to use a shielded interposing cable as well between the Interposing Terminal and the Connector Base. A custom shielded cable can be made using the Connector kit (IC200ACC302). In addition, a custom shield braid can be wrapped around standard Interposing Cables (IC200CBL105, 110, 120, 230). If this approach is used be sure to ground the braid.

All cable shield connections should be connected to earth ground and be kept as short as practical. The power cable does not need to be shielded.



Catalog Number	Description	Backplane Current Consumption in mA	
		5V	3.3V
IC200ALG320	Analog Output Module, 12 Bit Current, 4 Channels	50	
IC200ALG321	Analog Output Module, 12 Bit Voltage 0 to 10VDC 4 Channels	50	
IC200ALG322	Analog Output Module, 12 Bit Voltage -10 to +10VDC 4 Channels	50	
IC200ALG325	Analog Output Module, 13 Bit Voltage 8 Channels	50	
IC200ALG326	Analog Output Module, 13 Bit Current 8 Channels	50	
IC200ALG327	Analog Output Module, 13 Bit Voltage 12 Channels	50	
IC200ALG328	Analog Output Module, 13 Bit Current 12 Channels	50	
IC200ALG331	Analog Output Module, 16 Bit Voltage/Current, 1500VAC Isolation, 4 Channels	10	115
IC200ALG430	Analog Mixed Module, 12 Bit Input Current 4 Channels and Output Current 2 Channels	50	
IC200ALG431	Analog Mixed Module, 12 Bit 0 to 10VDC Input 4 Channels and Output 2 Channels	60	
IC200ALG432	Analog Mixed Module, 12 Bit +/-10VDC Input 4 Channels and Output 2 Channels	60	
IC200ALG620	Analog Input Module, 16 Bit RTD, 4 Channels	125	125
IC200ALG630	Analog Input Module, 16 Bit Thermocouple, 7 Channels	125	125
IC200MDD840	Mixed Module, 24VDC Positive Logic Input 20 Points / Output Relay 2.0 Amp 12 Points	375	
IC200MDD841	Mixed Module, 24VDC Positive Logic Input 20 Points / Output 12 Point / (4) High Speed Counter, PWM, or Pulse Train Configurable Points	30	130
IC200MDD842	Mixed Module, Output 24VDC Pos. Logic 0.5A Grouped w/ESCP 16 Points / Input 24VDC Pos/Neg Logic Grouped 16 Points	100	
IC200MDD843	Mixed Module, 24VDC Positive Logic Input Grouped 10 Points / Output Relay 2.0A per Point Grouped 6 Points	190	
IC200MDD844	Mixed Module, Output 12/24VDC Pos. Logic 0.5A 16 Points / Input 24 VDC Pos/Neg Logic Grouped 16 Points	70	
IC200MDD845	Mixed Module, Output Relay 2.0A Isolated 8 Points / Input 24VDC Pos/Neg Logic Grouped 16 Points	270	
IC200MDD846	Mixed Module, Output Relay 2.0A per Pt Isolated 8 Points / Input 120VAC Grouped 8 Points	300	
IC200MDD847	Mixed Module, Output Relay 2.0A per Pt Isolated 8 Points / Input 240VAC Grouped 8 Points	300	
IC200MDD848	Mixed Module, Output 120VAC 0.5A per Pt Isolated 8 Points / Input 120VAC Grouped 8 Points	125	
IC200MDD849	Mixed Module, Output Relay 2.0A per Pt Isolated 8 Points / Input 120VAC Isolated 8 Points	295	
IC200MDD850	Mixed Module, Output Relay 2.0A per Pt Isolated 8 Points / Input 240VAC Isolated 4 Points	275	
IC200MDD851	Mixed Module, Output 12/24VDC Pos. Grouped 16 Pts / Input 5/12VDC Pos/Neg Grp16 Pts	115	

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