

MANUFACTURER DOCUMENT PACKAGE

# Manufacturer's Manual

Reference package for procurement and maintenance review

GE VERSAMAX

## IC200ALG240

EIGHT-CHANNEL ISOLATED ANALOG INPUT 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

## Analog Input Modules



Analog input modules receive signals from current and voltage input devices. Modules require a carrier base (IC200CHSxxx).

|                                                | IC200ALG230                                                                                                              | IC200ALG240                                                                                                              | IC200ALG260                                                                                                              | IC200ALG261                                                                                                              |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>Product Name</b>                            | VersaMax Analog Input Module, 12 Bit Voltage/Current, 4 Channels                                                         | VersaMax Analog Input Module, 16 Bit Voltage/Current Isolated, 8 Channel                                                 | VersaMax Analog Input Module, 12 Bit Voltage/Current, 8 Channel                                                          | VersaMax Analog Input Module, 15 Bit Differential Voltage, 8 Channel                                                     |
| <b>Lifecycle Status</b>                        | Active                                                                                                                   | Active                                                                                                                   | Active                                                                                                                   | Active                                                                                                                   |
| <b>Input Range</b>                             | ±10 VDC or 0-10 VDC                                                                                                      | ±10 VDC, 4-20 mA                                                                                                         | 4-20 mA, ±10 VDC or 0-10 VDC                                                                                             | ±10 VDC                                                                                                                  |
| <b>Number of Channels</b>                      | 4                                                                                                                        | 8 Channel to channel isolated                                                                                            | 8                                                                                                                        | 8                                                                                                                        |
| <b>External Power Supply</b>                   | None                                                                                                                     | Range: 19.5-30 VDC including ripple; Current consumption: 100 mA maximum plus load currents                              | None                                                                                                                     | None                                                                                                                     |
| <b>Resolution</b>                              | Bipolar mode: 2.5 mV = 8 counts, Unipolar mode: 2.5 mV = 8 counts                                                        | Current mode: 381 nA nominal Voltage mode: 381 µV nominal                                                                | Current mode: 4 µA = 8 counts, Bipolar mode: 2.5 mV = 8 counts, Unipolar mode: 2.5 mV = 8 counts                         | Bipolar mode: 0.3125 mV = 1 counts                                                                                       |
| <b>Update Rate</b>                             | 0.4 ms                                                                                                                   | Approximately 20 mS max. @ 50 Hz filter frequency<br>Approximately 16.7 mS max. @ 60 Hz filter frequency                 | 0.4 ms                                                                                                                   | 7.5 ms                                                                                                                   |
| <b>Accuracy at 25°C</b>                        | ±0.3% typical of full scale, ±0.5% maximum of full scale                                                                 | ±0.1% maximum of full scale                                                                                              | ±0.3% typical of full scale, ±0.5% maximum of full scale                                                                 | ±0.3% typical of full scale, ±0.5% maximum of full scale                                                                 |
| <b>Input Impedance</b>                         | Voltage mode: 126 kOhms maximum, Current mode: 200 Ohms maximum                                                          | N/A                                                                                                                      | Voltage mode: 126 kOhms maximum, Current mode: 200 Ohms maximum                                                          | Voltage mode: 100 kOhms maximum                                                                                          |
| <b>Input Filter Response</b>                   | 5.0 ms                                                                                                                   | N/A                                                                                                                      | 5.0 ms                                                                                                                   | N/A                                                                                                                      |
| <b>5V Backplane Current Consumption (mA)</b>   | 125 maximum                                                                                                              | 15 maximum                                                                                                               | 130 maximum                                                                                                              | 200 maximum                                                                                                              |
| <b>3.3V Backplane Current Consumption (mA)</b> | N/A                                                                                                                      | 120 maximum                                                                                                              | N/A                                                                                                                      | N/A                                                                                                                      |
| <b>LED Indicators</b>                          | INT PWR LED indicates internally-generated field power is present. OK LED indicates backplane power is present.          | FLD PWR LED indicates the presence of both logic power and user power. OK LED indicates module status.                   | INT PWR LED indicates internally-generated field power is present. OK LED indicates backplane power is present.          | INT PWR LED indicates internally-generated field power is present. OK LED indicates backplane power is present.          |
| <b>Dimensions (W x H x D)</b>                  | 110 mm (4.3 in) x 66.8 mm (2.63 in) x 50 mm (1.956 in), not including the height of the carrier or the mating connectors | 110 mm (4.3 in) x 66.8 mm (2.63 in) x 50 mm (1.956 in), not including the height of the carrier or the mating connectors | 110 mm (4.3 in) x 66.8 mm (2.63 in) x 50 mm (1.956 in), not including the height of the carrier or the mating connectors | 110 mm (4.3 in) x 66.8 mm (2.63 in) x 50 mm (1.956 in), not including the height of the carrier or the mating connectors |