

## Durus\* Controllers

The Durus Controllers are loaded with features such as easy to use built-in display/keypad, high current outputs, multiple communication options, and are very affordable. The Durus Controllers can be programmed using both the built-in display and keypad or with the Durus Controllers programming software. The Durus Controllers are ideal for applications that require some logic, a few timers/counters and

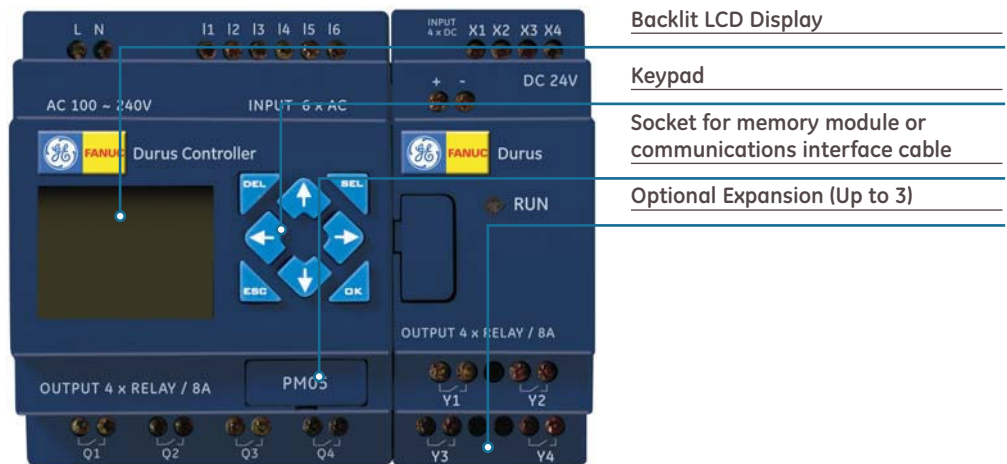
real-time clock control. The Durus Controllers are designed for simple control applications such as light control, gate control, HVAC, pump control and much more.

### Key Features:

- 8 Amp Relay Outputs, isolated
- Support for Modbus Slave, Profibus Slave and DeviceNet Slave

- Durus Controllers programming software enables the user to fully simulate the application without the hardware
- The Memory Module enables easy upgrades
- Software is free for downloading from the Web ([www.gefanuc.com](http://www.gefanuc.com))
- LCD Backlit display for easy viewing in all environments

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## Durus Controllers Selection Guide

Features	Durus -10 and -12	Durus -20
Built-in Discrete I/O	6 in/ 4 out	12 in/ 8 out (AC powered models) 8 in/ 8 out (DC powered models)
Maximum Discrete I/O	18 in/ 16 out	18 in/ 16 out
Built-in Analog I/O	2 on DC powered models	4 on DC powered models
I/O Expansion Units	Up to 3 discrete and 1 analog units on units that support expansion	
Logic Memory	200 Lines (4 cells wide per rung) or 99 Function Blocks	
Programming Language	Ladder or Function Block Diagram	
Execution Speed	10ms/cycle	
LCD Display	4 line, 12 character LCD backlit display	
Maximum Text Displays	15	
Display Languages	English, French, German, Spanish, Portuguese, Chinese, Italian	
Real Time Clock	Up to 15 uses	
Number of Timers	Up to 15; 0.01 seconds to 9999 minutes	
Number of Counters	Up to 15; 0 to 999999 counts	
Comparator Instruction	Up to 15; Supports Less Than Equal To or Greater Than Equal To for Timers, Counters or Analog	
High Speed Input Frequency	1kHz	
PWM Output Frequency	0.5kHz (1msec On, 1msec Off)	
Modbus Slave Support Built-in	No	No; Yes on selective models
Modbus Slave Support	Yes	
Profibus Slave Support	Yes	
DeviceNet Slave Support	Yes	
Agency Approvals	CE, UL	
Temperature Range	0 to 55°C	

## AC Models



The AC versions of the Durus Controllers come with 10 points (6 discrete inputs and 4 discrete outputs) or 20 points (12 discrete inputs and 8 discrete outputs). The units are available with or without display and keypad and with or without expansion. Up to 3 discrete and 1 analog expansion units can be added for either additional I/O. One communication module can be added.

	IC210DAR010	IC210BAR010	IC210NAR010
<b>Product Name</b>	10 point (6) AC Inputs, (4) Isolated Relay Out (8 Amps), AC input power, supports expansion and display/keypad	10 point (6) AC Inputs, (4) Isolated Relay Out (8 Amps), AC input power, supports expansion and no display/keypad	10 point (6) AC Inputs, (4) Isolated Relay Out (8 Amps), AC input power, no expansion and no display/keypad
<b>Number of Discrete Inputs/Outputs</b>	6 In/ 4 Out	6 In/ 4 Out	6 In/ 4 Out
<b>Number of Analog Inputs</b>	None built in, 4 with Analog Expansion	None built in, 4 with Analog Expansion	None
<b>Physical I/O Maximum</b>	34 I/O	34 I/O	34 I/O
<b>Support Expansion</b>	Yes	Yes	No
<b>LCD Display and Keypad</b>	Yes (4 lines x 12 characters)	No	No
<b>User Program Logic Memory</b>	200 Rungs and 99 Blocks	200 Rungs and 99 Blocks	200 Rungs and 99 Blocks
<b>Protocols Supported</b>	Modbus Slave, DeviceNet Slave, Profibus Slave expansion modules	Modbus Slave, DeviceNet Slave, Profibus Slave expansion modules	None
<b>Input Power Voltage</b>	85 to 240 VAC	85 to 240 VAC	85 to 240 VAC
<b>Power Supply Power Consumption</b>	90 mAmps	90 mAmps	90 mAmps
<b>Input Device Voltage</b>	85 to 240 VAC	85 to 240 VAC	85 to 240 VAC
<b>Output Control Voltage</b>	250 VAC / 30 VDC Relay Outputs, 8A Resistive Load (Isolated)	250 VAC / 30 VDC Relay Outputs, 8A Resistive Load (Isolated)	250 VAC / 30 VDC Relay Outputs, 8A Resistive Load (Isolated)
<b>Dimensions (W x H x D) mm</b>	72 mm x 90 mm x 58 mm	72 mm x 90 mm x 58 mm	72 mm x 90 mm x 58 mm



## AC Models

The AC versions of the Durus Controllers come with 10 points (6 discrete inputs and 4 discrete outputs) or 20 points (12 discrete inputs and 8 discrete outputs). The units are available with or without display and keypad and with or without expansion. Up to 3 discrete and 1 analog expansion units can be added for either additional I/O. One communication module can be added.

	IC210DAR020	IC210BAR020	IC210NAR020	IC210DAR012
<b>Product Name</b>	20 point (12) AC Inputs, (8) Isolated Relay Out (8 Amps), AC input power, supports expansion and display/keypad	20 point (12) AC Inputs, (8) Isolated Relay Out (8 Amps), AC input power, supports expansion and no display/keypad	20 point (12) AC Inputs, (8) Isolated Relay Out (8 Amps), AC input power, no expansion and no display/keypad	10 point (8) 24 VAC Inputs, (4) Isolated Relay Out (8 Amps), 24 VAC input power, supports expansion and display/keypad
<b>Number of Discrete Inputs/Outputs</b>	12 In/ 8 Out	12 In/ 8 Out	12 In/ 8 Out	6 In/ 4 Out
<b>Number of Analog Inputs</b>	None built in, 4 with Analog Expansion	None built in, 4 with Analog Expansion	None	None built in, 4 with Analog Expansion
<b>Physical I/O Maximum</b>	44 I/O	44 I/O	44 I/O	34 I/O
<b>Support Expansion</b>	Yes	Yes	No	Yes
<b>LCD Display and Keypad</b>	Yes (4 lines x 12 characters)	No	No	Yes (4 lines x 12 characters)
<b>User Program Logic Memory</b>	200 Rungs and 99 Blocks	200 Rungs and 99 Blocks	200 Rungs and 99 Blocks	200 Rungs and 99 Blocks
<b>Protocols Supported</b>	Modbus Slave, DeviceNet Slave, Profibus Slave expansion modules	Modbus Slave, DeviceNet Slave, Profibus Slave expansion modules	None	Modbus Slave, DeviceNet Slave, Profibus Slave expansion modules
<b>Input Power Voltage</b>	85 to 240 VAC	85 to 240 VAC	85 to 240 VAC	24 VAC
<b>Power Supply Power Consumption</b>	150 mAmps	150 mAmps	150 mAmps	90 mAmps
<b>Input Device Voltage</b>	85 to 240 VAC	85 to 240 VAC	85 to 240 VAC	24 VAC
<b>Output Control Voltage</b>	250 VAC / 30 VDC Relay Outputs, 8A Resistive Load (Isolated)	250 VAC / 30 VDC Relay Outputs, 8A Resistive Load (Isolated)	250 VAC / 30 VDC Relay Outputs, 8A Resistive Load (Isolated)	250 VAC / 30 VDC Relay Outputs, 8A Resistive Load (Isolated)
<b>Dimensions (W x H x D) mm</b>	126 mm x 90 mm x 58 mm	126 mm x 90 mm x 58 mm	126 mm x 90 mm x 58 mm	72mm x 90mm x 58mm

# Durus Controllers

## DC Models



The DC versions of the Durus Controllers come in either 12 point (6 discrete inputs, 2 analog and 4 discrete outputs) or 20 point (12 discrete inputs [analog inputs can be configured as either discrete inputs or analog inputs], 4 analog inputs and 8 discrete outputs). The units also support high speed inputs and PWM outputs. The units are available with or without display and keypad and with or without expansion. Up to 3 discrete and 1 analog expansion units can be added for either additional I/O. One communication module can be added.

	IC210DDR012	IC210BDR012	IC210NDR012
<b>Product Name</b>	10 point (6) 24 VDC Inputs, (2) analog inputs, (4) Isolated Relay Out (8 Amps), 24 VDC input power, supports expansion and display/keypad	10 point (6) 24 VDC Inputs, (2) analog inputs, (4) Isolated Relay Out (8 Amps), 24 VDC input power, supports expansion, no display/keypad	10 point (6) 24 VDC Inputs, (2) analog inputs, (4) Isolated Relay Out (8 Amps), 24 VDC input power, no expansion, no display/keypad
<b>Number of Discrete Inputs/Outputs</b>	6 In/ 4 Out	6 In/ 4 Out	6 In/ 4 Out
<b>Number of Analog Inputs</b>	2 built in, 4 additional with Analog Expansion	2 built in, 4 additional with Analog Expansion	2 built in
<b>Physical I/O Maximum</b>	36 I/O	36 I/O	36 I/O
<b>Support Expansion</b>	Yes	Yes	No
<b>LCD Display and Keypad</b>	Yes (4 lines x 12 characters)	No	No
<b>User Program Logic Memory</b>	200 Rungs and 99 Blocks	200 Rungs and 99 Blocks	200 Rungs and 99 Blocks
<b>Protocols Supported</b>	Modbus Slave, DeviceNet Slave, Profibus Slave expansion modules	Modbus Slave, DeviceNet Slave, Profibus Slave expansion modules	None
<b>Input Power Voltage</b>	24 VDC	24 VDC	24 VDC
<b>Power Supply Power Consumption</b>	90 mAmps	90 mAmps	90 mAmps
<b>Input Device Voltage</b>	24 VDC	24 VDC	24 VDC
<b>High Speed Frequency</b>	1KHz	1KHz	1KHz
<b>Output Control Voltage</b>	250 VAC / 30 VDC Relay Outputs, 8A Resistive Load (Isolated)	250 VAC / 30 VDC Relay Outputs, 8A Resistive Load (Isolated)	250 VAC / 30 VDC Relay Outputs, 8A Resistive Load (Isolated)
<b>PWM Maximum Output Frequency</b>	N/A	N/A	N/A
<b>Number of Analog Inputs</b>	2	2	2
<b>Analog Resolution</b>	10 bits	10 bits	10 bits
<b>Analog Input Range</b>	0 to 10 VDC	0 to 10 VDC	0 to 10 VDC
<b>Analog Input Used as Digital Input</b>	Input Current: 0.63 mA @ 24 VDC Input ON Current: 0.161 mA @ 9.8 VDC Input OFF Current: 0.085 mA @ 5 VDC	Input Current: 0.63 mA @ 24 VDC Input ON Current: 0.161 mA @ 9.8 VDC Input OFF Current: 0.085 mA @ 5 VDC	Input Current: 0.63 mA @ 24 VDC Input ON Current: 0.161 mA @ 9.8 VDC Input OFF Current: 0.085 mA @ 5 VDC
<b>Dimensions (W x H x D) mm</b>	72 mm x 90 mm x 58 mm	72 mm x 90 mm x 58 mm	72mm x 90mm x 58mm

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## DC Models



The DC versions of the Durus Controllers come in either 12 point (6 discrete inputs, 2 analog and 4 discrete outputs) or 20 point (12 discrete inputs [analog inputs can be configured as either discrete inputs or analog inputs], 4 analog inputs and 8 discrete outputs). The units also support high speed inputs and PWM outputs. The units are available with or without display and keypad and with or without expansion. Up to 3 discrete and 1 analog expansion units can be added for either additional I/O. One communication module can be added.

	IC210DDD012	IC210BDD012	IC210NDD012	IC210MDR124
<b>Product Name</b>	10 point (6) 24 VDC Inputs, (4) 24 VDC Out (Transistor 0.5 Amp), (2) analog inputs, 24 VDC input power, supports expansion and display/Keypad	10 point (6) 24 VDC Inputs, (4) 24 VDC Out (Transistor 0.5 Amp), (2) analog inputs, 24 VDC input power, supports expansion, no display/Keypad	10 point (6) 24 VDC Inputs, (4) 24 VDC Out (Transistor 0.5 Amp), (2) analog inputs, 24 VDC input power, no expansion, no display/Keypad	24 point (12) 12 VDC Inputs, (4) analog inputs, (8) Isolated Relay Out (8 Amps), 12 VDC input power, supports expansion and display/Keypad
<b>Number of Discrete Inputs/Outputs</b>	6 In/ 4 Out	6 In/ 4 Out	6 In/ 4 Out	12 In/ 8 Out
<b>Number of Analog Inputs</b>	2 built in, 4 additional with Analog Expansion	2 built in, 4 additional with Analog Expansion	2 built in	4 built in, 4 with Analog Expansion
<b>Physical I/O Maximum</b>	36 I/O	36 I/O	36 I/O	44 I/O
<b>Support Expansion</b>	Yes	Yes	No	Yes
<b>LCD Display and Keypad</b>	Yes (4 lines x 12 characters)	No	No	Yes (4 lines x 12 characters)
<b>User Program Logic Memory</b>	200 Rungs and 99 Blocks	200 Rungs and 99 Blocks	200 Rungs and 99 Blocks	200 Rungs and 99 Blocks
<b>Protocols Supported</b>	Modbus Slave, DeviceNet Slave, Profibus Slave expansion modules	Modbus Slave, DeviceNet Slave, Profibus Slave expansion modules	None	Modbus Slave built in, and Modbus Slave, DeviceNet Slave, Profibus Slave expansion modules
<b>Input Power Voltage</b>	24 VDC	24 VDC	24 VDC	12 VDC
<b>Power Supply Power Consumption</b>	90 mAmps	90 mAmps	90 mAmps	90 mAmps
<b>Input Device Voltage</b>	24 VDC	24 VDC	24 VDC	12 VDC
<b>High Speed Frequency</b>	1KHz	1KHz	1KHz	1KHz
<b>Output Control Voltage</b>	24 VDC Transistors	24 VDC Transistors	24 VDC Transistors	250 VAC / 30 VDC Relay Outputs, 8A Resistive Load (Isolated)
<b>PWM Maximum Output Frequency</b>	0.5K (1ms ON/ 1ms OFF)	100Hz	100Hz	N/A
<b>Number of Analog Inputs</b>	2	2	2	4
<b>Analog Resolution</b>	10 bits	10 bits	10 bits	10 bits
<b>Analog Input Range</b>	0 to 10 VDC	0 to 10 VDC	0 to 10 VDC	0 to 10 VDC
<b>Analog Input Used as Digital Input</b>	Input Current: 0.63 mA @ 24 VDC Input ON Current: 0.161 mA @ 9.8 VDC Input OFF Current: 0.085 mA @ 5 VDC	Input Current: 0.63 mA @ 24 VDC Input ON Current: 0.161 mA @ 9.8 VDC Input OFF Current: 0.085 mA @ 5 VDC	Input Current: 0.63 mA @ 24 VDC Input ON Current: 0.161 mA @ 9.8 VDC Input OFF Current: 0.085 mA @ 5 VDC	Input Current: 0.63 mA @ 24 VDC Input ON Current: 0.161 mA @ 9.8 VDC Input OFF Current: 0.085 mA @ 5 VDC
<b>Dimensions (W x H x D) mm</b>	72 mm x 90 mm x 58 mm	72 mm x 90 mm x 58 mm	72 mm x 90 mm x 58 mm	126 mm x 90 mm x 58 mm

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## DC Models



The DC versions of the Durus Controllers come in either 12 point (6 discrete inputs, 2 analog and 4 discrete outputs) or 20 point (12 discrete inputs [analog inputs can be configured as either discrete inputs or analog inputs], 4 analog inputs and 8 discrete outputs). The units also support high speed inputs and PWM outputs. The units are available with or without display and keypad and with or without expansion. Up to 3 discrete and 1 analog expansion units can be added for either additional I/O. One communication module can be added.

	IC210DDR024	IC210BDR024	IC210NDR024	IC210DDD024
<b>Product Name</b>	24 point (12) 24 VDC Inputs, (4) analog inputs, (8) Isolated Relay Out (8 Amps), 24 VDC input power, supports expansion and display/keypad	24 point (12) 24 VDC Inputs, (4) analog inputs, (8) Isolated Relay Out (8 Amps), 24 VDC input power, supports expansion, no display/keypad	24 point (12) 24 VDC Inputs, (4) analog inputs, (8) Isolated Relay Out (8 Amps), 24 VDC input power, no expansion, no display/keypad	24 point (12) 24 VDC Inputs, (8) 24 VDC Out (Transistor 0.5 Amp), (4) analog inputs, 24 VDC input power, supports expansion and display/Keypad
<b>Number of Discrete Inputs/Outputs</b>	12 In/ 8 Out	12 In/ 8 Out	12 In/ 8 Out	12 In/ 8 Out
<b>Number of Analog Inputs</b>	4 built in, 4 with Analog Expansion	4 built in, 4 with Analog Expansion	4 built in	4 built in, 4 with Analog Expansion
<b>Physical I/O Maximum</b>	44 I/O	44 I/O	44 I/O	44 I/O
<b>Support Expansion</b>	Yes	Yes	No	Yes
<b>LCD Display and Keypad</b>	Yes (4 lines x 12 characters)	No	No	Yes (4 lines x 12 characters)
<b>User Program Logic Memory</b>	200 Rungs and 99 Blocks	200 Rungs and 99 Blocks	200 Rungs and 99 Blocks	200 Rungs and 99 Blocks
<b>Protocols Supported</b>	Modbus Slave, DeviceNet Slave, Profibus Slave expansion modules	Modbus Slave, DeviceNet Slave, Profibus Slave expansion modules	None	Modbus Slave, DeviceNet Slave, Profibus Slave expansion modules
<b>Input Power Voltage</b>	24 VDC	24 VDC	24 VDC	24 VDC
<b>Power Supply Power Consumption</b>	90 mAmps	90 mAmps	90 mAmps	90 mAmps
<b>Input Device Voltage</b>	24 VDC	24 VDC	24 VDC	24 VDC
<b>High Speed Frequency</b>	1KHz	1KHz	1KHz	1KHz
<b>Output Control Voltage</b>	250 VAC / 30 VDC Relay Outputs, 8A Resistive Load (Isolated)	250 VAC / 30 VDC Relay Outputs, 8A Resistive Load (Isolated)	250 VAC / 30 VDC Relay Outputs, 8A Resistive Load (Isolated)	24 VDC Transistors
<b>PWM Maximum Output Frequency</b>	N/A	N/A	N/A	100Hz
<b>Number of Analog Inputs</b>	4	4	4	4
<b>Analog Resolution</b>	10 bits	10 bits	10 bits	10 bits
<b>Analog Input Range</b>	0 to 10 VDC	0 to 10 VDC	0 to 10 VDC	0 to 10 VDC
<b>Analog Input Used as Digital Input</b>	Input Current: 0.63 mA @ 24 VDC Input ON Current: 0.161 mA @ 9.8 VDC Input OFF Current: 0.085 mA @ 5 VDC	Input Current: 0.63 mA @ 24 VDC Input ON Current: 0.161 mA @ 9.8 VDC Input OFF Current: 0.085 mA @ 5 VDC	Input Current: 0.63 mA @ 24 VDC Input ON Current: 0.161 mA @ 9.8 VDC Input OFF Current: 0.085 mA @ 5 VDC	Input Current: 0.63 mA @ 24 VDC Input ON Current: 0.161 mA @ 9.8 VDC Input OFF Current: 0.085 mA @ 5 VDC
<b>Dimensions (W x H x D) mm</b>	126 mm x 90 mm x 58 mm	126 mm x 90 mm x 58 mm	126 mm x 90 mm x 58 mm	126 mm x 90 mm x 58 mm

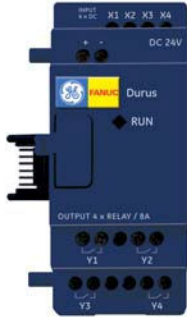
# Durus Controllers



## DC Models

The DC versions of the Durus Controllers come in either 12 point (6 discrete inputs, 2 analog and 4 discrete outputs) or 20 point (12 discrete inputs [analog inputs can be configured as either discrete inputs or analog inputs], 4 analog inputs and 8 discrete outputs). The units also support high speed inputs and PWM outputs. The units are available with or without display and keypad and with or without expansion. Up to 3 discrete and 1 analog expansion units can be added for either additional I/O. One communication module can be added.

	IC210BDD024	IC210NDD024	IC210MDR024	IC210MDD024
<b>Product Name</b>	24 point (12) 24 VDC Inputs, (8) 24 VDC Out (Transistor 0.5 Amp), (4) analog inputs, 24 VDC input power, supports expansion, no display/Keypad	24 point (12) 24 VDC Inputs, (8) 24 VDC Out (Transistor 0.5 Amp), (4) analog inputs, 24 VDC input power, no expansion, no display/Keypad	24 point with Modbus Slave communications (12) 24 VDC Inputs, (4) analog inputs, (8) Isolated Relay Out (8 Amps), 24 VDC input power, supports expansion and display/keypad	24 point Modbus Slave communications (12) 24 VDC Inputs, (8) 24 VDC Out (Transistor 0.5 Amp), (4) analog inputs, 24 VDC input power, supports expansion and display/Keypad
<b>Number of Discrete Inputs/Outputs</b>	12 In/ 8 Out	12 In/ 8 Out	12 In/ 8 Out	12 In/ 8 Out
<b>Number of Analog Inputs</b>	4 built in, 4 with Analog Expansion	4 built in	4 built in, 4 with Analog Expansion	4 built in, 4 with Analog Expansion
<b>Physical I/O Maximum</b>	44 I/O	44 I/O	44 I/O	44 I/O
<b>Support Expansion</b>	Yes	No	Yes	Yes
<b>LCD Display and Keypad</b>	No	No	Yes (4 lines x 12 characters)	Yes (4 lines x 12 characters)
<b>User Program Logic Memory</b>	200 Rungs and 99 Blocks	200 Rungs and 99 Blocks	200 Rungs and 99 Blocks	200 Rungs and 99 Blocks
<b>Protocols Supported</b>	Modbus Slave, DeviceNet Slave, Profibus Slave expansion modules	None	Modbus Slave built in, and Modbus Slave, DeviceNet Slave, Profibus Slave expansion modules	Modbus Slave built in, and Modbus Slave, DeviceNet Slave, Profibus Slave expansion modules
<b>Input Power Voltage</b>	24 VDC	24 VDC	24 VDC	24 VDC
<b>Power Supply Power Consumption</b>	90 mAmps	90 mAmps	90 mAmps	90 mAmps
<b>Input Device Voltage</b>	24 VDC	24 VDC	24 VDC	24 VDC
<b>High Speed Frequency</b>	1KHz	1KHz	1KHz	1KHz
<b>Output Control Voltage</b>	24 VDC Transistors	24 VDC Transistors	250 VAC / 30 VDC Relay Outputs, 8A Resistive Load (Isolated)	24 VDC Transistors
<b>PWM Maximum Output Frequency</b>	100Hz	100Hz	N/A	100Hz
<b>Number of Analog Inputs</b>	4	4	4	4
<b>Analog Resolution</b>	10 bits	10 bits	10 bits	10 bits
<b>Analog Input Range</b>	0 to 10 VDC	0 to 10 VDC	0 to 10 VDC	0 to 10 VDC
<b>Analog Input Used as Digital Input</b>	Input Current: 0.63 mA @ 24 VDC Input ON Current: 0.161 mA @ 9.8 VDC Input OFF Current: 0.085 mA @ 5 VDC	Input Current: 0.63 mA @ 24 VDC Input ON Current: 0.161 mA @ 9.8 VDC Input OFF Current: 0.085 mA @ 5 VDC	Input Current: 0.63 mA @ 24 VDC Input ON Current: 0.161 mA @ 9.8 VDC Input OFF Current: 0.085 mA @ 5 VDC	Input Current: 0.63 mA @ 24 VDC Input ON Current: 0.161 mA @ 9.8 VDC Input OFF Current: 0.085 mA @ 5 VDC
<b>Dimensions (W x H x D) mm</b>	126 mm x 90 mm x 58 mm	126 mm x 90 mm x 58 mm	126 mm x 90 mm x 58 mm	126 mm x 90 mm x 58 mm

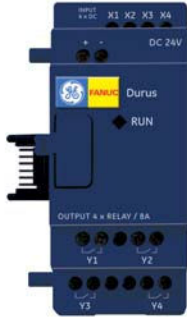


## Discrete Expansion Units

The Durus Controllers support up to 3 discrete and 1 analog expansion units. The discrete expansion units have 4 inputs and 4 outputs.

	IC210EAR008	IC210EDR008	IC210EDD008
Product Name	8 point discrete expansion (4) AC Inputs, (4) Isolated Relay Out (8 Amps), AC input power	8 point discrete expansion (4) 24 VDC Inputs, (4) Isolated Relay Output (8 Amps), 24 VDC input power	8 point discrete expansion (4) 24 VDC Inputs, (4) 24 VDC Out (Transistor 0.5 Amp), 24 VDC input power
Number of Discrete Inputs/Outputs	4 In/ 4 Out	4 In/ 4 Out	4 In/ 4 Out
Input Power Voltage	85 to 240 VAC	24 VDC	24 VDC
Power Supply Power Consumption	90 mAmps	90 mAmps	90 mAmps
Input Device Voltage	85 to 240 VAC	24 VDC	24 VDC
Dimensions (W x H x D) mm	38 mm x 90 mm x 58 mm	38 mm x 90 mm x 58 mm	38 mm x 90 mm x 58 mm





## Analog Expansion Unit

The Durus Controllers support up to 3 discrete and 1 analog expansion units. The analog input module support four 0 to 10 VDC inputs.

IC210EAI004

Product Name	4 point analog expansion (4) analog inputs, 12/24 VDC input power Only one analog expansion supported on the Durus Controller
Number of Analog Inputs	4
Analog Input Range	0 to 10 VDC
Analog Resolution	10 bits
Dimensions (W x H x D) mm	38 mm x 90 mm x 58 mm



## Communications Options

The Durus Controllers support one communication expansion unit. There are three communication options available—Modbus Slave, Profibus Slave and DeviceNet Slave.

	IC210EMS001	IC210EPS001	IC210EDS001
<b>Product Name</b>	Modbus RTU slave communications expansion module, 24 VDC power source	Profibus-DP slave communications expansion module, 24 VDC power source	DeviceNet slave communications expansion module, 24 VDC power source
<b>Protocol Supported</b>	Modbus Slave	Profibus-DP Slave V0	DeviceNet Group 2 Only Slave Device
<b>Network Data Rate</b>	4800, 9600, 19200, 38400, 57600	9.6K to 12 Meg	125K, 250K, 500 K
<b>Dimensions (W x H x D) mm</b>	38 mm x 90 mm x 58 mm	38 mm x 90 mm x 58 mm	38 mm x 90 mm x 58 mm