

GE Fanuc Automation



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Controller & I/O Solutions

More choices for your applications

Control Electric Co. Pvt. Ltd.

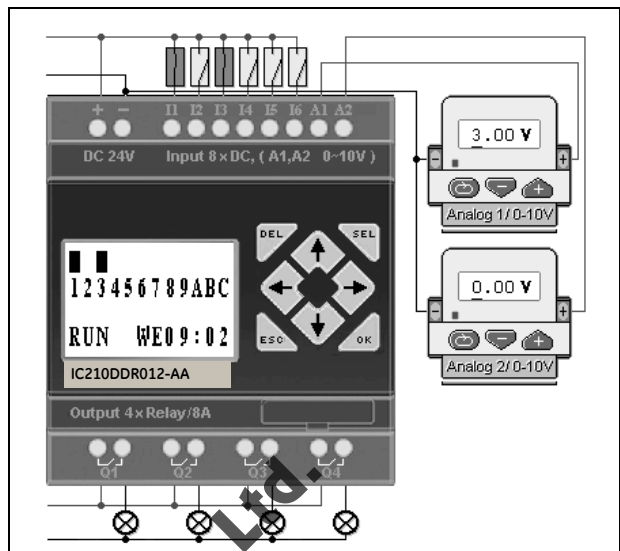
Overview of DURUS Controller Modules

Key Features

- Programmable Relay, AC or DC Inputs, Analog Inputs, Relay or DC Outputs
- Select models expandable up to 44 I/O
- 10-Point, 12-Point, 20-Point and 24-Point models
- Analog Inputs, 10-bit resolution, 0-10VDC
- Analog Input Expansion, 10-bit resolution, 0-10VDC or 4 – 20ma
- 265VAC / 30VDC Relay Outputs, 8A Resistive Load (Isolated)
- Available with or without Keypad / Display
- 4-line, 12-character LCD backlit display
- 17 custom user screens
- 8 programming keys
- Retentive Flash memory
- Multi-language support:
 - English
 - French
 - German
 - Spanish
 - Portuguese
 - Chinese
 - Italian
- Built-in Real-Time Clock
- Program from front of controller or software
- Software supports simulator mode

Power Supply

- Input Power Voltage Range - DC Models: 12VDC, or 20.4-28.8VDC, or 85V – 265VDC; AC Models: 24VAC or 85-265VAC
- Power Consumption - 24VDC: 10-point, 90mA; 20-point: 150mA; 100-240VAC: 90mA
- Wire Range (all terminals) 26 to 14 AWG



Programming

- Programming languages Ladder/Function Block
- Program Memory (Rungs/Blocks) 200/99
- Programming storage media: Flash
- Execution Speed 10ms/cycle
- Windows based programming

Timers

- Maximum Number 15
- Timing ranges 0.01 second ~ 9,999 minutes

Counters

- Maximum Number 15
- Highest count 999,999
- Resolution 1

Real-Time Clocks

- Number available 15
- Resolution 1 minute
- Time spans available (1/week/etc) week/year-month-day-hour-min

Analog Compares

- Number available 15
- Compare versus other inputs: Timer current value, Counter current value

DURUS PLC

<u>Model No.</u>	<u>Number of Discrete Inputs/Outputs</u>	<u>Analog Inputs</u>	<u>Physical I/O Maximum</u>	<u>Support Expansion</u>	<u>LCD Display and Keypad</u>	<u>User Program Logic Memory</u>	<u>Protocol Support</u>	<u>Input Power Voltage</u>
<u>IC210NAR010</u>	6 In/ 4 Out	None	34 I/O		No	200 Rungs and 99 Blocks	None	85 to 240 VAC; 85 to 240 VDC
<u>IC210NAR020</u>	12 In/ 8 Out	None	44 I/O		No	200 Rungs and 99 Blocks	None	85 to 240 VAC; 85 to 240 VDC
<u>IC210DAR012</u>	8 In/ 4 Out	4 with Analog Expansion, None	34 I/O	yes	Yes (4 lines x 12 characters)	200 Rungs and 99 Blocks	DeviceNet Slave, Modbus Slave,	24 VAC
<u>IC210DAR010</u>	6 In/ 4 Out	4 with Analog Expansion, None	34 I/O	yes	Yes (4 lines x 12 characters)	200 Rungs and 99 Blocks	DeviceNet Slave, Modbus Slave,	85 to 240 VAC; 85 to 240 VDC
<u>IC210BAR010</u>	6 In/ 4 Out	4 with Analog Expansion, None	34 I/O	yes	No	200 Rungs and 99 Blocks	DeviceNet Slave, Modbus Slave,	85 to 240 VAC; 85 to 240 VDC
<u>IC210DAR020</u>	12 In/ 8 Out	4 with Analog Expansion, None	44 I/O	yes	Yes (4 lines x 12 characters)	200 Rungs and 99 Blocks	DeviceNet Slave, Modbus Slave,	85 to 240 VAC; 85 to 240 VDC
<u>IC210BAR020</u>	12 In/ 8 Out	4 with Analog Expansion, None	44 I/O	yes	No	200 Rungs and 99 Blocks	DeviceNet Slave, Modbus Slave,	85 to 240 VAC; 85 to 240 VDC

<u>Model No.</u>	<u>Analog Inputs</u>	<u>Physical I/O Maximum</u>	<u>Support Expansion</u>	<u>LCD Display and Keypad</u>	<u>User Program Logic Memory</u>	<u>Protocol Support</u>	<u>Input Power Voltage</u>	<u>Output Control Voltage</u>
<u>IC210NDR024</u>	4 built in	44 I/O		No	200 Rungs and 99 Blocks		24 VDC	250 VAC / 30 VDC Relay Outputs, 8A Resistive Load (Isolated)
<u>IC210NDD012</u>	2 built in	36 I/O		No	200 Rungs and 99 Blocks		24 VDC	24 VDC Transistors
<u>IC210NDD024</u>	4 built in	44 I/O		No	200 Rungs and 99 Blocks		24 VDC	24 VDC Transistors
<u>IC210DDR112</u>	2 built in, 4 additional with Analog Expansion	36 I/O		Yes (4 lines x 12 characters)	200 Rungs and 99 Blocks	DeviceNet Slave, Modbus Slave, Profibus Slave expansion modules	12 VDC	250 VAC / 30 VDC Relay Outputs, 8A Resistive Load (Isolated)
<u>IC210DDR012</u>	2 built in, 4 additional with Analog Expansion	36 I/O	yes	Yes (4 lines x 12 characters)	200 Rungs and 99 Blocks	DeviceNet Slave, Modbus Slave, Profibus Slave expansion modules	24 VDC	250 VAC / 30 VDC Relay Outputs, 8A Resistive Load
<u>IC210BDR012</u>	2 built in, 4 additional with Analog Expansion	36 I/O	yes	No	200 Rungs and 99 Blocks	DeviceNet Slave, Modbus Slave, Profibus Slave expansion modules	24 VDC	250 VAC / 30 VDC Relay Outputs, 8A Resistive Load (Isolated)
<u>IC210NDR012</u>	2 built in	36 I/O	yes	No	200 Rungs and 99 Blocks	None	24 VDC	250 VAC / 30 VDC Relay Outputs, 8A
<u>IC210MDR124</u>	4 built in, 4 with Analog Expansion	44 I/O	yes	Yes (4 lines x 12 characters)	200 Rungs and 99 Blocks	and Modbus Slave, DeviceNet Slave, Modbus Slave built in, Profibus Slave	12 VDC	250 VAC / 30 VDC Relay Outputs, 8A Resistive Load

<u>IC210DDR024</u>	4 built in, 4 with Analog Expansion	44 I/O	yes	Yes (4 lines x 12 characters)	200 Rungs and 99 Blocks	DeviceNet Slave, Modbus Slave, Profibus Slave expansion modules	24 VDC	250 VAC / 30 VDC Relay Outputs, 8A Resistive Load
<u>IC210BDR024</u>	4 built in, 4 with Analog Expansion	44 I/O	yes	No	200 Rungs and 99 Blocks	DeviceNet Slave, Modbus Slave, Profibus Slave expansion	24 VDC	250 VAC / 30 VDC Relay Outputs, 8A Resistive
<u>IC210DDD024</u>	4 built in, 4 with Analog Expansion	44 I/O	yes	Yes (4 lines x 12 characters)	200 Rungs and 99 Blocks	DeviceNet Slave, Modbus Slave, Profibus Slave expansion	24 VDC	24 VDC Transistors
<u>IC210MDR024</u>	4 built in, 4 with Analog Expansion	44 I/O	yes	No	200 Rungs and 99 Blocks	DeviceNet Slave, Modbus Slave, Profibus Slave expansion	24 VDC	250 VAC / 30 VDC Relay Outputs, 8A Resistive
<u>IC210DDD012</u>	2 built in, 4 additional with Analog Expansion	36 I/O	yes	Yes (4 lines x 12 characters)	200 Rungs and 99 Blocks	DeviceNet Slave, Modbus Slave, Profibus Slave expansion modules	24 VDC	24 VDC Transistors
<u>IC210BDD012</u>	2 built in, 4 additional with Analog Expansion	36 I/O	yes	No	200 Rungs and 99 Blocks	DeviceNet Slave, Modbus Slave, Profibus Slave expansion modules	24 VDC	24 VDC Transistors
<u>IC210BDD024</u>	4 built in, 4 with Analog Expansion	44 I/O	yes	No	200 Rungs and 99 Blocks	DeviceNet Slave, Modbus Slave, Profibus Slave expansion modules	24 VDC	24 VDC Transistors
<u>IC210MDD024</u>	4 built in, 4 with Analog Expansion	44 I/O	yes	No	200 Rungs and 99 Blocks	DeviceNet Slave, Modbus Slave, Profibus Slave expansion modules	24 VDC	24 VDC Transistors