

OMRON

DeviceNet-compatible Digital Controllers

E5□R-DRT

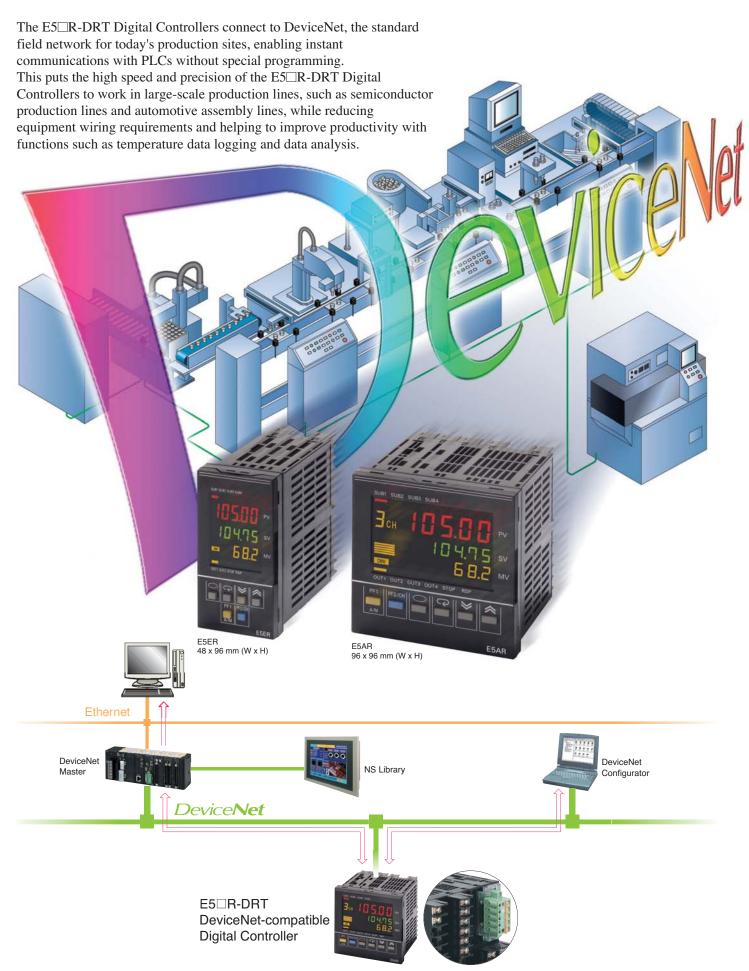
The E5 R-DRT Digital Controllers excel in both speed and precision, and connect to DeviceNet.







Linked to DeviceNet, the E5 R-DRT Digital Controllers Speed Up Communications and Boost Productivity



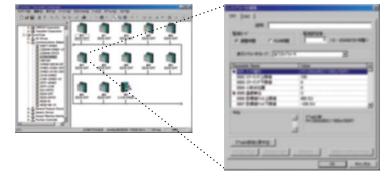
Program-less, High-speed Data Communications with a PLC

A DeviceNet connection enables high-speed data transfer by simply allocating settings and parameters to be monitored in PLC I/O areas. This greatly reduces the program development requirements for communications.

	PLC Memory	
	Process value	
IN	Manipulated variable monitor (heating)	
	Status	
	Set point	
ОИТ	Bank 0: Alarm 1 value	
	Bank 0: Alarm upper limit 1	
	Bank 0: Alarm lower limit 1	
	Bank 0: Alarm 2 value	
	Bank 0: Alarm upper limit 2	
	Bank 0: Alarm lower limit 2	
	Operation commands	

Unified Management with the DeviceNet Configurator

Using the DeviceNet Configurator, all E5 R-DRT parameters can be uploaded or downloaded in a single operation. Set parameters can also be saved, loaded, and printed, dramatically reducing production and maintenance steps for mass-production equipment.

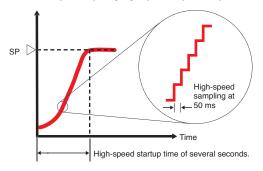


Optimal Use of the Unique High Speed and Precision of the E5□R-DRT

High-speed Sampling at 50 ms

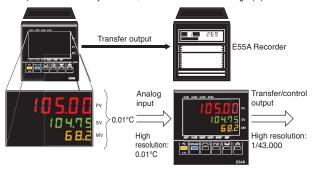
The E5 R-DRT offers high-speed sampling at 50 ms per loop (a fivefold improvement on previous OMRON products). This is optimal for control operations such as ceramic heater control, flowrate control, and pressure control. Extraction of square root is also provided for use in flowrate control.

• Stable control of objects requiring high-speed response is possible.



High-resolution of Pt 0.01 °C

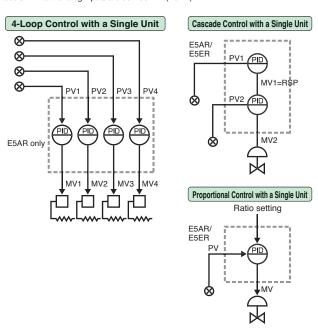
High-precision analog inputs of $\pm 0.1\%$ (a threefold improvement on previous OMRON products). A high resolution of Pt0.01°C has been achieved. The transfer and control outputs also have a high resolution of 1/43,000 (for 4 to 20 mA, a twentyfold improvement on previous OMRON products). This allows high resolution when measuring, detecting changes, or logging internal temperature and humidity of devices, such as environmental testing equipment.



Control Up to 4 Loops with a Single Unit

The series includes models with 1, 2, and 4 analog inputs (see note). Various control modes can be selected in the software settings, including standard control, heating and cooling control, cascade control, proportional control, and remote SP control. This enables a single Unit to perform multipoint control (up to 4 inputs for the E5AR, up to 2 points for the E5ER), cascade control, and proportional control. Up to four points, including temperature, humidity, and pressure, can be controlled simultaneously from a single Unit, contributing to reduced costs and downsizing panels.

Models with four analog inputs are 96 x 96 mm (E5AR).



Select from 12 Models with 96 x 96 mm or 48 x 96 mm Dimensions

■ Ordering Information

DeviceNet-compatible E5AR

				Optional functions			
Size	Control type	Control mode	Outputs (control/transfer)	Auxiliary outputs (SUB)	Event inputs	Communications	Models
E5AR 96 x 96 x 99 mm			2 points: Pulse voltage and Pulse voltage/current			DeviceNet	E5AR-Q4B-DRT
(W x H x D) Basic control (1 loop)		Single-loop standard control Single-loop heating and cooling control	2 points: Current and Current	4	2	Devicemen	E5AR-C4B-DRT
			4 points: Pulse voltage and Pulse voltage/current and Current (2 points)			DeviceNet	E5AR-QC4B-DRT
3- 10500	2-loop control	2-loop standard control 2-loop heating and cooling control Single-loop cascade control Single-loop control with remote SP Single-loop proportional control	4 points: Pulse voltage (2 points) and Pulse voltage/current (2 points)	4	_	DeviceNet	E5AR-QQ4W-DRT
	4-loop control	4-loop standard control 2-loop standard control 2-loop heating and cooling control	4 points: Current (4 points)	4	_	DeviceNet	E5AR-CC4WW-DRT
	Position- proportional	Single loop position proportional control	Relay output (1 open, 1 closed)	4	_	DeviceNet	E5AR-PR4F-DRT
	control (1 loop)	Single-loop position-proportional control	Relay output (1 open, 1 closed) 1 current (transfer) output	4	_	DeviceNet	E5AR-PRQ4F-DRT

● DeviceNet-compatible E5ER

	Control type	Control mode	Outputs (control/transfer)	Optional functions			
Size				Auxiliary outputs (SUB)	Event inputs	Communications	Model
E5ER 48 x 96 x 99 mm	mm Basic control	ol Single-loop standard control	2 points: Pulse voltage and Pulse voltage/current	- 2	0	DavisaNet	E5ER-QTB-DRT
(W x H x D) (1 loop)	Single-loop heating and cooling control	2 points: Current and Current	2	2	DeviceNet	E5ER-CTB-DRT	
	2-loop control	2-loop standard control Single-loop heating and cooling control Single-loop cascade control Single-loop control with remote SP Single-loop proportional control	2 points: Pulse voltage and Pulse voltage/current	- 2	_	DeviceNet	E5ER-QTW-DRT
105.hp - 105	2-100p contion		2 points: Current and Current				E5ER-CTW-DRT
	Position- proportional control (1 loop)	Single-loop position-proportional control	Relay output (1 open, 1 closed)	2	_	DeviceNet	E5ER-PRTF-DRT

For detailed specifications, refer to the most recent version of the E5AR/E5ER DeviceNet Operation Manual (H124).

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