

# OMRON

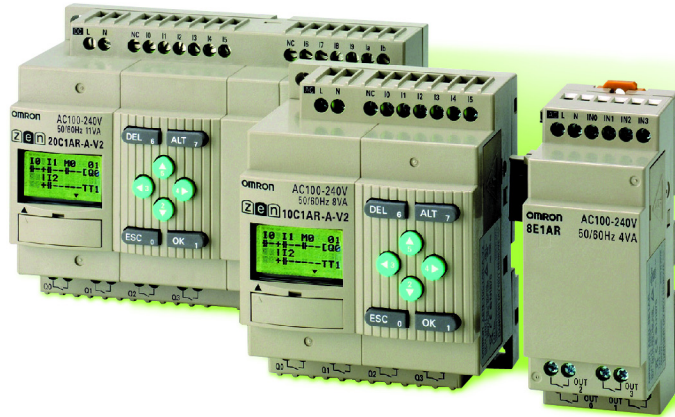
## ZEN Nano Controller

**Omron's Easy-To-Use Programmable Relay  
Offers Precision and Space Savings for  
Small Scale Control Applications**

# zen

**Smart. Simple. Small.**

The ideal solution for managing a wide range of simple applications, including automatic lighting, access control, conveyor positioning, pump control, testing equipment, watering systems, or ventilation systems.



### System Advantages

- Delivers the flexibility and functionality of separate timers, counters, and relays for control applications with up to 44 I/O.
- New economy CPU models – **perfect for applications that require less than 10 or 20 points of I/O.** (Does not accept expansion units).
- Save time by using the memory cassette to transfer programs between ZEN units and standardize updates to end users.
- Reduce wiring and engineering time using simple ladder logic programming with the push of a button or click of the mouse.
- Easily add up to 3 ultra-slim 35mm, 8 I/O expansion units when more points of control are required.

### ZEN Starter Kits – Great introduction to the power and simplicity of the ZEN Series

Includes everything for self-training, system design, and installation:

- 10 I/O CPU
- PC programming cable (RS-232 to ZEN)
- Support software
- Manuals
- Simulator switches



ZEN-STARTER01-V2	AC I/O Kit with ZEN-10C1AR-A-V2	\$193.00
ZEN-STARTER02-V2	DC I/O Kit with ZEN-10C1AR-D-V2	\$193.00

### System Features

- Accurate analog inputs  $\pm 1.5\%$  FS.
- Wide supply voltage range of 10.8 to 28.8 VDC.
- Flexible mounting – either horizontal or vertical.
- New CPUs with built-in RS-485 communications for data sharing.
- Advanced high-value counting with 8-digit counter and 8-digit comparators, in addition to 16 standard counters.
- One 150-Hz high-speed counter available on models with DC power supply.
- Twin-timer operation allows you to set ON and OFF times separately, greatly simplifying intermittent operation.
- Password function ensures security.
- Display user-set messages or analog-converted values.


### ZEN Support Software

- Easily write ladder programs, monitor programs online, set parameters, print, and save files in the Windows® environment.
- Offers simulation capability to simplify program debugging; allows programs to be simulated on a personal computer without connecting to ZEN.




Smart. Simple. Small.

## 10-Point CPU Programmable Relay Units


Appearance	Description	Inputs / Power Supply	Outputs	Analog Input / Comparators	8-digit Counter / Comparators	Model Number	List Price
 90 H x 70 W x 56 D mm	10 I/O CPU Expandable up to 34 I/O	6	100 to 240 VAC 12 to 24 VDC	4 Relays	–	Yes / 4	<b>ZEN-10C1AR-A-V2</b> <b>\$115.00</b>
					2 Ch. 0 - 10V / 4	Yes / 4	<b>ZEN-10C1DR-D-V2</b> <b>\$115.00</b>
		100 to 240 VAC 12 to 24 VDC		Transistors	2 Ch. 0 - 10V / 4	Yes / 4	<b>ZEN-10C1DT-D-V2</b> <b>\$115.00</b>
	10 I/O CPU Economy model (non-expandable)			4 Relays	–	Yes / 4	<b>ZEN-10C3AR-A-V2</b> <b>\$90.00</b>
		100 to 240 VAC 12 to 24 VDC			2 Ch. 0 - 10V / 4	Yes / 4	<b>ZEN-10C3DR-D-V2</b> <b>\$90.00</b>
	9 I/O CPU with RS-485 Communications Expandable up to 33 I/O			3	–	Yes / 4	<b>ZEN-10C4AR-A-V2</b> <b>\$185.00</b>
					2 Ch. 0 - 10V / 4	Yes / 4	<b>ZEN-10C4DR-D-V2</b> <b>\$185.00</b>

## 20-Point CPU Programmable Relay Units





Appearance	Description	Inputs / Power Supply	Outputs	Analog Input / Comparators	8-digit Counter / Comparators	Model Number	List Price
 90 H x 122.5 W x 56 D mm	20 I/O CPU Expandable up to 44 I/O	12	100 to 240 VAC 12 to 24 VDC	8 Relays	–	Yes / 4	<b>ZEN-20C1AR-A-V2</b> <b>\$155.00</b>
					2 Ch. 0 - 10V / 4	Yes / 4	<b>ZEN-20C1DR-D-V2</b> <b>\$155.00</b>
		100 to 240 VAC 12 to 24 VDC		Transistors	2 Ch. 0 - 10V / 4	Yes / 4	<b>ZEN-20C1DT-D-V2</b> <b>\$155.00</b>
	20 I/O CPU Economy model (non-expandable)			8 Relays	–	Yes / 4	<b>ZEN-20C3AR-A-V2</b> <b>\$130.00</b>
		100 to 240 VAC 12 to 24 VDC			2 Ch. 0 - 10V / 4	Yes / 4	<b>ZEN-20C3DR-D-V2</b> <b>\$130.00</b>

10 and 20 I/O models available without display. Please refer to datasheet for more information.

## I/O Expansion Units

Appearance	Description	Inputs / Power Supply	Outputs	Model Number	List Price
 90 H x 35 W x 56 D mm	8 I/O Expansion units	4	100 to 240 VAC	4 Relays	<b>ZEN-8E1AR</b> <b>\$69.52</b>
			12 to 24 VDC		<b>ZEN-8E1DR</b> <b>\$69.52</b>
				Transistors	<b>ZEN-8E1DT</b> <b>\$69.52</b>

## ZEN Accessories

Appearance	Description	Model Number	List Price
	ZEN Support Software	<b>ZEN-SOFT01V4</b>	<b>\$40.00</b>
	ZEN Programming Cable – Serial to ZEN (2m)	<b>ZEN-CIF01</b>	<b>\$80.08</b>
	Memory Cassette EEPROM – Copies program to multiple units	<b>ZEN-ME01</b>	<b>\$31.25</b>
	ZEN Battery – Use with controller CPU to provide 10 years of memory protection to prevent data loss in the event of an extended power outage (45 H x 17.5 W x 44 D mm)	<b>ZEN-BAT01</b>	<b>\$37.33</b>

**OMRON**

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