

OMRON Controllers and Counters



OMRON ZEN PROGRAMMABLE NANO CONTROLLERS

RoHS compliant This page of product is compliant.

Nano sized controller has the features and functions of both a programmable controller and smart relay to allow simple yet powerful control. Apply the ZEN to small-scale control applications where simple functionality and low cost are critical. Provides an economical alternative to discrete timers, counters and general purpose relays. Control programs can be created using the 32-bit, Windows-based ZEN support software or using the operation buttons on the front panel. The ZEN is also flexible with five CPU types, multiple expansion options, and a wide selection of accessories.

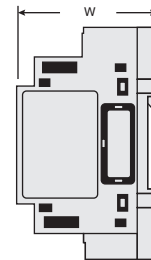
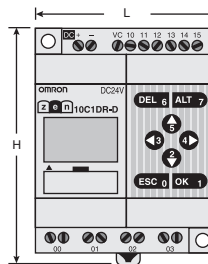
Specifications:

- CPUs have relay outputs
- ZEN support software runs on Windows 95, 98, 2000, ME, XP, or NT 4.0

Features:

- Accurate analog inputs $\pm 1.5\%$ FS
- Wide supply voltage range of 10.8 to 28.8VDC
- 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 150kHz 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

DIMENSIONS: mm			
	L	W	H
ZEN-10	70.0	56.0	90.0
ZEN-20	122.5	56.0	90.0



CPU

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Omron Part No.	Type	No. of I/O Points	Input Voltage	No. of Inputs	No. of Outputs	LCD and Buttons	Calendar and Clock	Analog Input	Price Each			
										1	2	5	10
653-ZEN-10C1AR-A	ZEN-10C1AR-A-V2	LCD	10	100-240VAC	6	4	Yes	Yes	No	139.96	135.24	132.56	124.94
653-ZEN-10C1DR-D2	ZEN-10C1DR-DV2	LCD	10	12-24VDC	6	4	Yes	Yes	Yes	140.02	128.36	118.49	110.03
653-ZEN-20C1AR-A	ZEN-20C1AR-A-V2	LCD	20	100-240VAC	12	8	Yes	Yes	No	217.08	199.00	183.69	170.57
653-ZEN-20C1DR-D2	ZEN-20C1DR-D-V2	LCD	20	12-24VDC	12	8	Yes	Yes	Yes	218.69	213.03	207.37	199.34

Expansion I/O

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Omron Part No.	Input Voltage	Number of Inputs	Number of Outputs	Price Each			
					1	2	5	10
653-ZEN-8E1DR	ZEN-8E1DR	12-24VDC	4	4	80.51	79.54	78.42	76.34
* 653-ZEN-8E1AR	ZEN-8E1AR	100-240VAC	4	4	98.18	90.00	83.08	77.14

* Cannot be connected to a CPU unit with DC power supply

Supporting Materials

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Omron Part No.	Description	Price Each			
			1	2	5	10
653-ZEN-ME01	ZEN-ME01	Memory cassette, copy program to multiple units	40.66	39.61	38.56	37.07
653-ZEN-CIF01	ZEN-CIF01	2m RS-323C connecting cable	107.70	104.91	102.12	98.17
653-ZEN-BAT01	ZEN-BAT01	Battery unit, memory back-up	44.72	41.00	37.85	35.14
653-ZEN-SOFT01-V4	ZEN-SOFT01-V4	ZEN support software	70.33	68.52	66.69	64.11

OMRON ZEN STARTER KIT

ZEN Starter Kit includes CPU unit (ZEN-10C1DR-D-V2), connecting cable, ZEN support software, and manual.



MOUSER STOCK NO.	Omron Part No.	Version	Price Each
653-ZENSTARTER2-V2	ZEN-STARTER-02-V2	DC	301.78

For quantities greater than listed, call for quote.

OMRON E5CN SERIES: 1/16 DIN SIZE DIGITAL TEMPERATURE CONTROLLERS

Specifications:

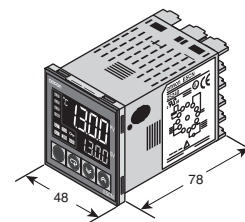
- Thermocouple input: K, J, T, E, L, U, N, R, S, B
- Voltage input: 0-50mV
- Relay output: SPST-NO, 250VAC, 3A (resistive load), electrical life: 100,000 operations
- Voltage output: 12VDC $\pm 15\%$ (PNP), max. load current: 21mA, with short-circuit protection circuit

Features:

- Connect to either thermocouple or platinum resistance thermometer with the same model
- Water-resistant construction (NEMA 4X)
- 2 alarms
- 3-year warranty

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Omron Part No.	Power Supply Voltage	Heater Burnout Alarm	Output Type	Price Each			
					1	2	5	10
653-E5CN-Q2MT-5AC1	E5CN-Q2MT-500-AC100-240	100-240VAC	No	Voltage	262.64	255.85	249.05	239.40
653-E5CN-R2MT-5AC1	E5CN-R2MT-500-AC100-240	100-240VAC	No	Relay	262.64	255.85	249.05	239.40
653-E5CN-C2MT-5AC1	E5CN-C2MT-500-AC100-240	100-240VAC	No	Current	375.81	366.07	356.34	342.70
653-E5CN-R2MTD500-24	E5CN-R2MTD-500-AC/DC24	24VAC/VDC	No	Relay	217.16	210.64	208.05	206.54



DIMENSIONS: mm

OMRON H7AN SERIES: SOLID STATE DIGITAL COUNTERS

Specifications:

- Power supply voltage: 100-240VAC, 50/60Hz
- Control output: SPDT and solid state output
- Max. counting speed: 30Hz or 5kHz

Features:

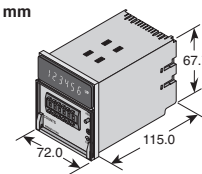
- DIN 72x72mm
- Easy setting with thumbwheel switches
- A draw-out construction enables maintenance without rewiring.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Omron Part No.	Counting Method	Preset	Memory Backup	Display Zone	Price Each		
						1	2	5
653-H7AN-4DM-AC1	H7AN-4DM-AC100-240	UP or DOWN (selectable)	Single	Provided	4-digit LED	620.90	564.45	517.41



DIMENSIONS: mm



OMRON H7BX SERIES: MULTIFUNCTION COUNTERS

Specifications:

- External power supply: 12VDC
- Input modes: Increment, decrement, command (UP/DOWN A) Individual (UP/DOWN B) Quadrature (UP/DOWN C)

Features:

- DIN 72x2mm and highly visible display with backlight transmissive LCD
- Selectable display color (red/green) enables checking output status at a distance.
- Easy operation with a key for each digit
- Performs all basic settings with a DIP switch
- Provides a counter (total/preset, batch, and dual) and a tachometer

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Omron Part No.	Supply Voltage	Output Type	Type	Price Each		
					1	2	5
653-H7BX-AWAC100240	H7BX-AW AC100240	100 - 240VAC	Contact and NPN transistor output	2-Stage	379.24	344.76	316.03



DIMENSIONS: mm