



Digital Programmer/Controller

# EC5900R/EC5950R

## Simple Operation

### Easy Operation with Front Dial

The mass program of a maximum of 400 steps  
2ch independent control (EC5950R)



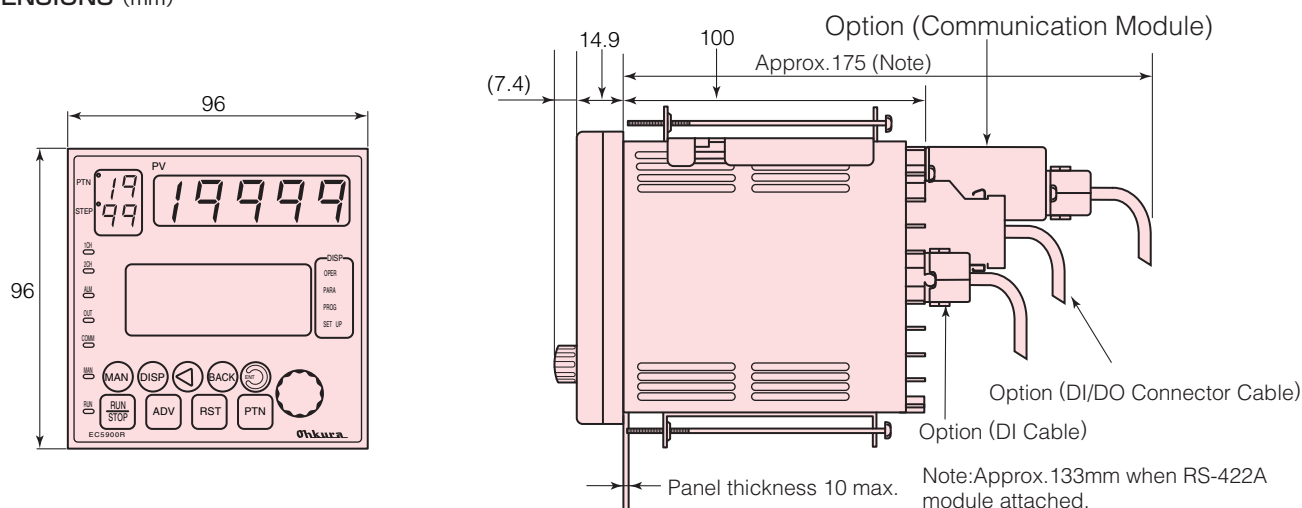
### Features

- Human friendly display and operability
  - LCD (wide temperature range product) display of 16-character and 4-line
  - Graphic display of program pattern
- The program function of fullness
  - DO: a maximum of 15 points, DI: a maximum of 12 points
  - Time unit: Enables to switch time unit (minute/second) of programs
  - It is easy edit about a program pattern by deletion/insertion function of a step, and deletion/copy function of a pattern.
- High Accuracy :  $\pm (0.1\% \text{ FS} + 1 \text{ digit})$
- Multi-Input (Thermocouple, RTD, Voltage or Current)  
Multi-output (Selective)

## ■ SPECIFICATIONS

TITLE	ITEM / FUNCTION	EC5900R	EC5950R
Input	Point	1	2
	Sampling rate	100ms	
	Input signal	B, R, S, K, E, J, T, WRe5-26, N, PR40-20, PLII, U, L, Au-Fe, $\pm 10$ , 0~20, 0~50mV, 0~1, 0~5, 1~5, 0~10V DC, 4~20mA, Pt100, JPt100	
Performance	Accuracy	$\pm (0.1\% \text{ FS} + 1 \text{ digit})$	
	Noise reduction ratio	Normal mode reduction ratio: 60dBmin., Common mode reduction ratio: 140dBmin.	
Programs	Number of patterns	Max.19	Max.38(19patterns x 2)
	Number of steps	Max.400	
	Setting method	X-Y type by settings of time and target setpoint	
	Setting range	Setpoint; Whole input range width Time setting; 0h00min to 399h59min or 0h00min00s to 5h59min59s(switching type)	
	Repeat action	Maximum 999 repeats	
Control	Control type	PID, PD, 3-position(dual output) or ON/OFF	
	PID	Switching system of multi-PID/ programmed PID Multi-PID... Selection of 1 set from 8 sets of PID parameters on a step basis Programmed PID... Proportional computation system by 3 reference points	
Control output	Point	1 point(Standard)+1 point(Optional)	1 point(CH1)+1 point(CH1 Optional)+1 point(CH2)
	Output type	Relay; a-contact, 250VAC, 3A resistive load	
		SSR Drive; 15VDC, 20mA max. Current; 4~20mA/600 $\Omega$ or 0~5mA/2k $\Omega$	
DO	Point	Max.5 points (Standard: Relay)+10 points (Optional: Transistor open collector)	
DI	Point	4 points (Standard)+8 points (Optional) Non-voltage contact input 15VDC 1mA	
Option	Analog retransmission(AO)	0~20mA DC or 4~20mADC for a setting scale is selectable	
	Sensor power	24V 24mA DC max	
	Communication	RS-232C, RS-422A(Use for option module), RS-485	
	ARCNET	Token passing LAN, 2.5Mbps, 20 nodes/network	
	DI/DO expansion adapter	DI; 7 points Contact input, DO; 8 points Form-1A 250VAC 1A(resistive load)	
Power	Power Supply	100~240 VAC, 50/60Hz	
	Power consumption	40VA max.	
Construction	Dimensions(mm)	96(W) x 96(H) x 115(D)	
	Mass	Approx. 500g	
Environmental conditions	Ambient temperature	-10~55°C	

## ■ DIMENSIONS (mm)



**Do not install this device before consulting instruction manual**

**Ohkura**

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Specifications are subject to change without notice.

For further information, a quotation or a demonstration please contact to: