DIN-sized (48 x 48 mm) Temperature Controller with Analog Setting

- Compact, low-cost Temperature Controller.
- Incorporates proportional control and reset adjustment function.
- Consecutive mounting possible using mounting adapter.
- Incorporates a plug-in socket, thus allows to DIN-track and flush mounting.

 Refer to Safety Precautions for All Temperature

 Controllers.



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Ordering Information

■ Temperature Controllers

Standard Models

	Indicatio	on method	No indication					
	Cor	ntrol mode	ON/OFF					
Inp	ut	Output	F	Relay				
		0 to 200	E5C2-R20K	E5C2-R20K-W				
		0 to 300	E5C2-R20K	E5C2-R20K-W				
		0 to 400	E5C2-R20K					
	K (CA)	0 to 600	E5C2-R20K					
Thermo-		0 to 800	E5C2-R20K	E5C2-R20K-W				
couple		0 to 1000	E5C2-R20K	E5C2-R20K-W				
		0 to 1200	E5C2-R20K	E5C2-R20K-W				
	J (IC)	0 to 200	E5C2-R20J	E5C2-R20K-W				
		0 to 300	E5C2-R20J	E5C2-R20K-W				
		0 to 400	E5C2-R20J	E5C2-R20K-W				
	Cor	trol mode	Proportional					
Inp	ut	Output	F	Relay				
		0 to 200	E5C2-R40K	E5C2-R40K-W				
		0 to 300	E5C2-R40K	E5C2-R40K-W				
		0 to 400	E5C2-R40K					
	K (CA)	0 to 600	E5C2-R40K					
Thermo-		0 to 800	E5C2-R40K					
couple		0 to 1000						
		0 to 1200		E5C2-R40K-W				
		0 to 200		E5C2-R40J-W				
	J (IC)	0 to 300		E5C2-R40J-W				
		0 to 400		E5C2-R40J-W				

		Indicati	on method	No indication					
		Co	ntrol mode	ON/OFF					
	Input		Output	Relay					
Input/	Resis-	Platinum	-50 to 50	E5C2-R20P-D					
stan- dard	tance Ther-	resistance thermom-	-20 to 80	E5C2-R20P-D					
scale	mome-		eter Pt100	eter Pt100	eter Pt100	0 to 50	E5C2-R20P-D		
(°C)	C) ter			0 to 100	E5C2-R20P-D				
			0 to 200	E5C2-R20P-D					
				0 to 300	E5C2-R20P-D				
			0 to 400	E5C2-R20P-D					
	Ther-	THE (re-	-50 to 50	E5C2-R20G					
	mistor placeable element)	placeable element)						0 to 100	E5C2-R20G
		50 to 150	E5C2-R20G						
			100 to 200	E5C2-R20G					
			150 to 300	E5C2-R20G					

■ Accessories (Order Separately) Protective Cover

Туре	Model
Hard Protective Cover	Y92A-48B

Sockets

Name	Model
Front Connecting Socket	P2CF-08
Back Connecting Socket	P3G-08
Front Connecting Socket with Finger Protection	P2CF-08-E
Protective Cover (for finger protection)	Y92A-48G

CSM_E5C2_DS_E_7A_*

E5C2

Model Number Legend

$\underbrace{\mathbf{E5C2-}}_{1 \ 2 \ 3} \underbrace{\square}_{2 \ 3} - \underbrace{\square}_{4}$

- 1. Control Outputs R: Relay
- 2. Control Method
 - 20: ON-OFF control
 - 40: Proportional control

3. Input

- K: K-type thermocouple
- J: J-type thermocouple
- P-D: Platinum resistance thermometer (Pt100)
- G: Thermistor with replaceable element
- 4. Temperature Scale
 - Blank: Degrees C
 - W: Both Degrees C and Degrees F
- Note: A functional explanation is provided here for illustration, but models are not necessarily available for all possible combinations. Refer to *Ordering Information* when ordering. Examples
 - Relay control output, ON/OFF control, type-K thermocouple input: E5C2-R20K
 - Relay control output, proportional control, thermocouple input: E5C2-R40P-D

Temperature Ranges

					Input					The	ermo	cou	ple			R	esist	ance	e The	ermo	met	er		Th	nermi	stor	
							Chi		(CA el vs	A) . alu	mel		Iron ve	J (IC) s. const	tantan					sista er Pt			(re		ermi eable	stor eleme	ent)
					1,200							1,200											The	emistor	nomin	al resist	ance
			Sta	andard scale	1,000					800	1,000												6 kΩ (0°C)	6 kΩ (0°C)	30 kΩ (0°C)	550 Ω (200°C)	4 kΩ)(200°C)
				(°C)	800 600			400	600						400							400					
					400		300							300							300						300
					300 200	200						-	200		_	50	80	50	100	200			50	100	150	200	
					100							-	-	-		50	00	50	100				50	100		100	150
					0 -100	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0		0	50		
																-50	-20						-50				
Setting method	Indica- tion method	Control mode	Output		linimum division (°C)	5	10	10	20	20	25	25	5	10	10	2	2	1	2	5	10	10	2	2	2	2	2
Analog		ON/OFF	Relay	Model		E5C	2-R2	20K					E5C2-	R20J		E5C	2-R2	20P-I	D				E5C	2-R20	G		
setting	indi- cation	Propor- tional (P)	Relay	Model		E5C	2-R4	40K																			

Specifications

Ratings

Supply voltage	100 to 240 VAC 50/60 Hz
Operating voltage range	90% to 110% of rated supply voltage
Power consumption	Approx. 3.6 VA
Input	Thermocouple (with sensor burnout detection circuit), platinum resistance thermometer, or thermistor with replaceable element
Control method	ON/OFF or proportional control
Setting method	Analog setting
Indication method	No indication
Control output	Relay output: SPDT, 3 A at 250 VAC, resistive load (switching capacity: 330 VA)
Ambient operat- ing temperature	-10°C to 55°C (with no icing or condensation)
Ambient operat- ing humidity	45% to 85%

Note: Do not use an inverter output as the power supply. (Refer to Safety Precautions for All Temperature Controllers.)

■ Characteristics

Setting accuracy	±2% FS max.
Hysteresis	Approx. 0.5% FS (fixed)
Proportional band	3% FS (fixed)
Control period	Approx. 20 s
Reset range	$5 \pm 1\%$ FS min. (See note 1.)
Insulation resistance	20 MΩ min. (at 500 VDC)
Dielectric strength	2,000 VAC, 50/60 Hz for 1 min between charged termi- nals and uncharged metallic parts
Vibration resistance	Malfunction: 10 to 55 Hz, 0.15-mm single amplitude for 10 min each in X, Y, and Z directions Destruction: 16.7 Hz, 2-mm double amplitude for 2 hrs each in X, Y, and Z directions
Shock resistance	Malfunction: 147 m/s ² , 3 times each in 6 directions Destruction: 294 m/s ² , 3 times each in 6 directions
Life expectancy	Electrical: 100,000 operations min. (3 A at 110 VAC, resistive load)
Weight	Approx. 100 g (with flush-mounting adapter)
Degree of protection	Front panel: IEC standard IP40 (See note 2.) Terminals: IEC standard IP00
Applicable Socket	P2CF-08 (order separately), P3G-08 (order separately)
Applicable Protec- tive Cover	Y92A-48B (order separately)

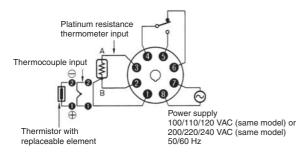
Note: 1. No reset function is incorporated by any E5C2 model with ON/OFF control. The reset function is used to correct offset for proportional control. If there is an offset below the set value, turn the

reset adjustment clockwise. **2.** A special Watertight Cover is used to achieve this degree of protection (IP66, NEMA4). Refer to *Y92A-*____N.

Connections

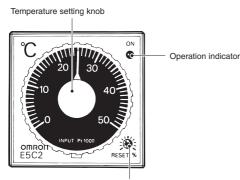
Connecting the Input

• Connect a thermocouple, the E52-THE Thermistor (replaceable element) or a platinum resistance thermometer to terminals 1 (positive) and 2 (negative) on the E5C2 as shown in the following illustration.



 On the E52-□□1D, the lead wires are thermocouple element wires, making them difficult to solder because solder will not stick to them easily. Remove the crimp terminal and polish the ends before attempting to solder them.

Nomenclature



RESET adjustment shaft No reset function is incorporated by any E5C2 model with ON/OFF control.

Output

- If the load circuit is a heating control system, be sure to connect the load to terminals 4 and 5. If the load circuit is a cooling control system, be sure to connect the load to terminals 4 and 6.
- We recommend using an external relay to extend the electrical life of internal relays when driving a large capacity load. This is particularly important when the output relay is switched frequently (e.g., with proportional control).

Power Supply

- If a single power supply is used for the E5C2 and the load, the supply voltage of the power supply may vary greatly when the load is open or closed if the capacity of the power supply is not large enough. Make sure that the capacity of the power supply is large enough so that the supply voltage range will be always from 90% to 110% of the rated supply voltage.
- The E5C2 operates at either 50 or 60 Hz.

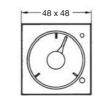
Operation Indicator

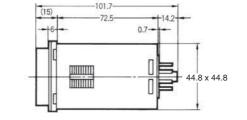
Indicator	Output							
	NO contacts (4 and 5)	NC contacts (4 to 6)						
Red Lit	ON	OFF						
Not lit	OFF	ON						

Dimensions

Note: All units are in millimeters unless otherwise indicated.







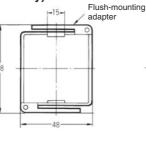
Terminal Arrangement (Bottom View)

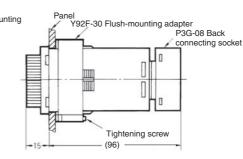


Dimensions with Flush-mounting Adapter (Accessory), and Back Connecting Socket (Sold Separately)

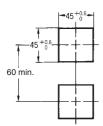








Panel Cutout



Side-by-side Mounting of N Controllers



٦	Qty.	2	3	4	5	6
	L	93 ⁺¹	141 ⁺¹ ₀	189 ⁺¹	237 ⁺¹	285 ⁺¹

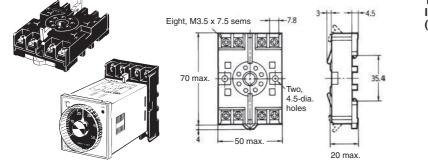
Note: 1. Recommended panel thickness is 1 to 4 mm.

2. Close side-by-side mounting is possible (in a single direction).

■ Accessories (Order Separately)

Connection Sockets

P2CF-08 Front Connecting Socket



Terminal Arrangement/ Internal Connections (Top View)

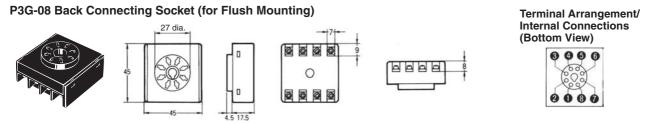


Mounting Holes



Note: Can also be mounted to a DIN track.

Note: A finger-protection model (P2CF-08-E) is also available.



Note: A Protective Cover for finger protection (Y92A-48G) is also available.

Hard Protective Cover

A Hard Protective Cover (Y92A-48B) is available. It can be used in the following cases.

- · To protect the setting section, against dust and dirt
- To prevent accidently changing settings by touching the front of the Controller.
- To protect the Controller from water drips

Appearance	
Model	Y92A-48B

Safety Precautions

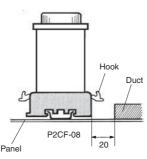
Refer to Safety Precautions for All Temperature Controllers.

Correct Use

Mounting

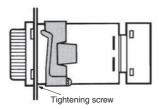
Track Mounting (E5C2 with P2CF-08)

When mounting two or more E5C2 models with track-mounting sockets, leave a space of approximately 20 mm on both sides of the sockets where hooks are located.



Flush Mounting

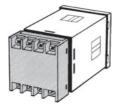
Insert E5C2 into the square hole of the panel and insert an adapter from the back so that there will be no space between E5C2 and the panel. Then, secure the E5C2 with a screw.



Applicable Thermistor

Connect a Thermistor with a replaceable element (E52-THE5A, E52-THE6D, or E52-THE6F) to the E5C2-R20G. Refer to *E52* for details.

The P3G-08 can be wired in the same way as the P2CF-08.



Dismounting

If flush mounted, loosen the screw of the adapter and disengage the hooks for dismounting.



Temperature Setting

Do not turn the temperature setting knob of the E5C2 with excessive force, otherwise the stopper of the knob may break.

Others

- Do not remove the housing of the E5C2, otherwise the housing may break.
- To clean the surface of the E5C2, use a soft cloth wet with neutral detergent or alcohol. Do not use any organic solvent, such as paint thinner or benzine, strong acid or strong alkali to clean the surface of the E5C2, otherwise the surface of the E5C2 will become damaged.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

In the interest of product improvement, specifications are subject to change without notice.

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