

Programmable Controllers Join the Series!

Program up to 256 segments and take advantage of the high cost performance of the new LCD that improves both the field of view and contrast.



48 x 48 mm
E5CN-HT

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

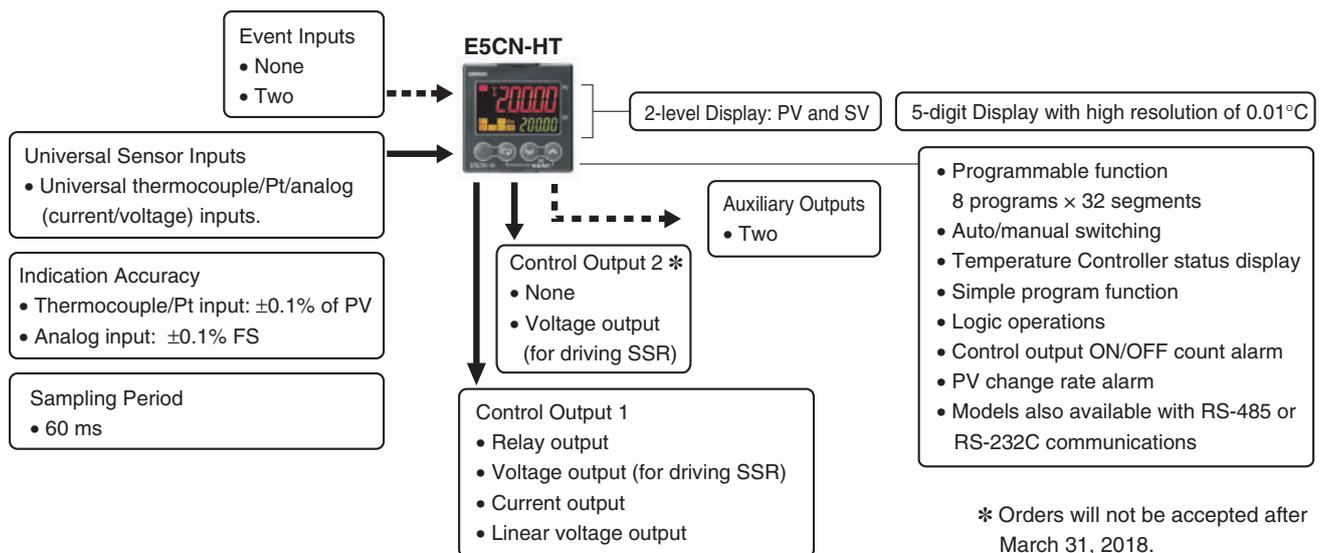
- Set up to 8 programmed patterns with up to 32 segments (steps) each.
- High-resolution display with 5 digits/0.01°C display in a compact Controller (48 x 48 mm).
- High-speed sampling cycle of 60 ms.
- High Accuracy
Thermocouple/Pt input: $\pm 0.1\%$ of PV
Analog input: $\pm 0.1\%$ FS
- Universal inputs on all models (thermocouple, PT, or analog input) to handle various sensors with one Controller.
- A PV/SV-status display function can be set to automatically alternate between displaying the status of the Temperature Controller (auto/manual, RUN/RESET, and alarms) and the PV or SV.
- Flexible contact outputs with logic operations (AND, OR, and delays) set from the Support Software (CX-Thermo version 4.3). Program settings can be managed.
- Preventive maintenance for relays in the Temperature Controller using a Control Output ON/OFF Counter.

Refer to *Safety Precautions for E5□N/E5□N-H/ E5□N-HT*.

Refer to *Operation for E5□N/E5□N-H/ E5□N-HT* for operating procedures.

E53-CN□-500 in this catalog have been discontinued at the end of March 2018.

Main I/O Functions

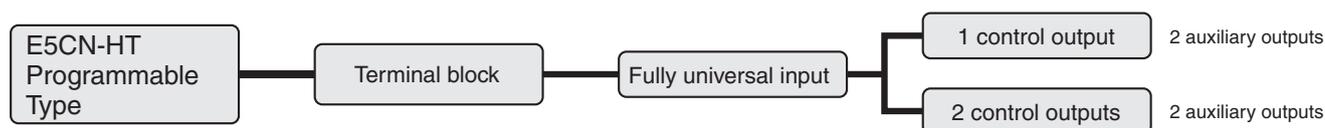


This data sheet is provided as a guideline for selecting products. Be sure to refer to the following user manuals for application precautions and other information required for operation before attempting to use the product.

E5CN-HT/E5AN-HT/E5EN-HT Digital Controllers User's Manual Programmable Type (Cat. No. H169)

E5CN-HT/E5AN-HT/E5EN-HT Digital Controllers Communications Manual Programmable Type (Cat. No. H170)

Lineup



Note: Models with one control output and models with two control outputs can be used for heating/cooling control.

Model Number Structure

Model Number Legend

Controllers

E5CN- M - -500

1 2 3 4 5 6 7

1. Type

HT: Programmable

2. Control Output 1

R: Relay output

Q: Voltage output (for driving SSR)

C: Current output

V: Linear voltage output

3. Auxiliary Outputs

2: Two outputs

4. Option 1

M: Option Unit can be mounted.

5. Power Supply Voltage

Blank: 100 to 240 VAC

D: 24 VAC/VDC

6. Case Color

Blank: Black

7. Terminal Cover

-500: With terminal cover

Option Units

E53-

1 2 3 4

1. Applicable Controller

CN: E5CN-HT, E5CN-H or E5CN

2. Function 1

Blank: None

Q: Control output 2 (voltage output for driving SSR) *

P: Power supply for sensor

C: Current output

3. Function 2

Blank: None

H: Heater burnout/SSR failure/Heater overcurrent detection (CT1)

HH: Heater burnout/SSR failure/Heater overcurrent detection

(CT2)

B: Two event inputs

03: RS-485 communications

H03: Heater burnout/SSR failure/Heater overcurrent detection

(CT1) + RS-485 communications

HB: Heater burnout/SSR failure/Heater overcurrent detection

(CT1) + Two event inputs

HH03: Heater burnout/SSR failure/Heater overcurrent detection

(CT2) + RS-485 communications

H01: Heater burnout/SSR failure/Heater overcurrent detection

(CT1)/RS-232C communications

F: Transfer output

BF: Two event inputs/Transfer output

4. Version

N2: Available only to models released after January 2008

Note: 1. Not all combinations of function 1 and function 2 specifications are possible for Option Units (E53-).

2. Estimates can be provided for coatings and other specifications that are not given in the datasheet. Ask your OMRON representative for details.

* Orders will not be accepted after March 31, 2018.

Specifications

Ratings

Power supply voltage	No D in model number: 100 to 240 VAC, 50/60 Hz D in model number: 24 VAC, 50/60 Hz; 24 VDC	
Operating voltage range	85% to 110% of rated supply voltage	
Power consumption	100 to 240 VAC: 8.5 VA (max.) (E5CN-HTR2 at 100 VAC: 3.0 VA) 24 VAC/VDC: 5.5 VA (24 VAC)/3.5 W (24 VDC) (max.) (E5CN-HTR2D at 24 VAC: 2.7 VA)	
Sensor input	Any of the following can be selected (i.e., fully universal input). Thermocouple: K, J, T, E, L, U, N, R, S, B, W, or PL II Platinum resistance thermometer: Pt100 or JPt100 Current input: 4 to 20 mA or 0 to 20 mA Voltage input: 1 to 5 V, 0 to 5 V, or 0 to 10 V	
Input impedance	Current input: 150 Ω max., Voltage input: 1 MΩ min. (Use a 1:1 connection when connecting the ES2-HB-N.)	
Control method	ON/OFF control or 2-PID control (with auto-tuning)	
Control output	Relay output	SPST-NO, 250 VAC, 3 A (resistive load), electrical life: 100,000 operations, minimum applicable load: 5 V, 10 mA
	Current output	4 to 20 mA DC/0 to 20 mA DC, load: 600 Ω max., resolution: approx. 10,000 *
	Linear voltage output	0 to 10 VDC (load: 1 kΩ min.), Resolution: Approx. 10,000
Auxiliary output	Number of outputs	2 max.
	Output specifications	Relay output: SPST-NO, 250 VAC, 3 A (resistive load), electrical life: 100,000 operations, minimum applicable load: 5 V, 10 mA
Event input	Number of outputs	2
	External contact input specifications	Contact input: ON: 1 kΩ max., OFF: 100 kΩ min.
		Non-contact input: ON: Residual voltage: 1.5 V max., OFF: Leakage current: 0.1 mA max.
Current flow: Approx. 7 mA per contact		
Logic operations	Number of operations	8 max. (Combinations can be made using work bits.)
	Operations	<ul style="list-style-type: none"> Logic operation: Any of the following four patterns can be selected. The input status may be inverted. (A and B) or (C and D), (A or C) and (B or D), A or B or C or D, A and B and C and D (A, B, C, and D are four inputs.) Delay: ON delay or OFF delay for the results of the logic operation given above. Setting time: 0 to 9999 s or 0 to 9999 min Output inversion: Possible
		Outputs
	Work bit assignments	Any of the following can be assigned to up to eight work bits (logic operation results): Operation commands (assigned to event inputs) *, auxiliary outputs, or control outputs. * Application is possible with models that do not have event inputs by using an internal assignment.
Transfer outputs	Number of outputs	1 max.
	Output specifications	Current output: 4 to 20 mA DC, Load: 600 Ω max., Resolution at 4 to 20 mA: Approx. 10,000
RSP input	Not supported	
Setting method	Digital setting using front panel keys	
Indication method	11-segment digital display and individual indicators (7-segments displays also possible) Character height: PV: 11 mm, SV: 6.5 mm	
Other functions	Manual output, heating/cooling control, loop burnout alarm, other alarm functions, heater burnout detection (including SSR failure and heater overcurrent detection), 40% AT, 100% AT, MV limiter, input digital filter, temperature input shift, run/reset, protection functions, control output ON/OFF counter, extraction of square root, MV change rate limit, PV/SV status display, automatic cooling coefficient adjustment, program control functions, etc.	
Ambient operating temperature	-10 to 55°C (with no condensation or icing), for 3-year warranty: -10 to 50°C	
Ambient operating humidity	25% to 85%	
Storage temperature	-25 to 65°C (with no condensation or icing)	

* For models with current outputs, control output 1 can be used as a transfer output.

Alarm Outputs

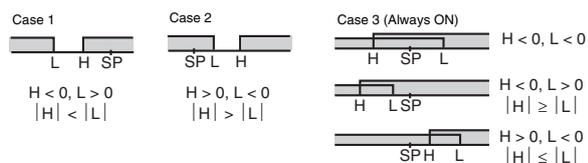
Each alarm can be independently set to one of the following 13 alarm types. The default is 2: *Upper limit*. Auxiliary outputs are allocated for alarms. ON delays and OFF delays (0 to 999 s) can also be specified.

Note: For models with heater burnout, SSR failure, and heater overcurrent detection, alarm 1 will be an OR output of the alarm selected from the following alarm types and the alarms for heater burnout, SSR failure, and heater overcurrent. To output only a heater burnout alarm, SSR failure alarm, and heater overcurrent alarm for alarm 1, set the alarm type to 0 (i.e., no alarm function).

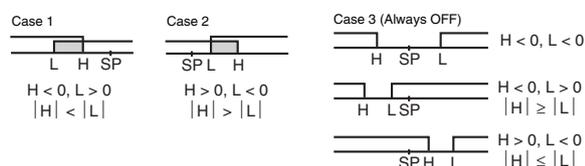
Set value	Alarm type	Alarm output operation		Description of function
		When alarm value X is positive	When alarm value X is negative	
0	Alarm function OFF	Output OFF		No alarm
1 *1	Upper- and lower-limit	ON OFF	*2	Set the deviation in the set point by setting the alarm upper limit (H) and alarm lower limit (L).
2	Upper-limit	ON OFF	ON OFF	Set the upward deviation in the set point by setting the alarm value (X).
3	Lower-limit	ON OFF	ON OFF	Set the downward deviation in the set point by setting the alarm value (X).
4 *1	Upper- and lower-limit range	ON OFF	*3	Set the deviation in the set point by setting the alarm upper limit (H) and alarm lower limit (L).
5 *1	Upper- and lower-limit with standby sequence	ON OFF	*4	A standby sequence is added to the upper- and lower-limit alarm (1). *6
6	Upper-limit with standby sequence	ON OFF	ON OFF	A standby sequence is added to the upper-limit alarm (2). *6
7	Lower-limit with standby sequence	ON OFF	ON OFF	A standby sequence is added to the lower-limit alarm (3). *6
8	Absolute-value upper-limit	ON OFF	ON OFF	The alarm will turn ON if the process value is larger than the alarm value (X) regardless of the set point.
9	Absolute-value lower-limit	ON OFF	ON OFF	The alarm will turn ON if the process value is smaller than the alarm value (X) regardless of the set point.
10	Absolute-value upper-limit with standby sequence	ON OFF	ON OFF	A standby sequence is added to the absolute-value upper-limit alarm (8). *6
11	Absolute-value lower-limit with standby sequence	ON OFF	ON OFF	A standby sequence is added to the absolute-value lower-limit alarm (9). *6
12	LBA (alarm 1 type only)		---	*7
13	PV change rate alarm		---	*8

*1. With set values 1, 4 and 5, the upper and lower limit values can be set independently for each alarm type, and are expressed as “L” and “H.”

*2. Set value: 1, Upper- and lower-limit alarm



*3. Set value: 4, Upper- and lower-limit range



*4. Set value: 5, Upper- and lower-limit with standby sequence
For Upper- and Lower-Limit Alarm Described Above

- Case 1 and 2
Always OFF when the upper-limit and lower-limit hysteresis overlaps.
- Case 3: Always OFF

*5. Set value: 5, Upper- and lower-limit with standby sequence
Always OFF when the upper-limit and lower-limit hysteresis overlaps.

*6. Refer to the *E5CN-HT/E5AN-HT/E5EN-HT Digital Controllers User's Manual* (Cat. No. H169) for information on the operation of the standby sequence.

*7. Refer to the *E5CN-HT/E5AN-HT/E5EN-HT Digital Controllers User's Manual* (Cat. No. H169) for information on the loop burnout alarm (LBA).

*8. Refer to the *E5CN-HT/E5AN-HT/E5EN-HT Digital Controllers User's Manual* (Cat. No. H169) for information on the PV change rate alarm.

Characteristics

Indication accuracy	Thermocouple: ($\pm 0.1\%$ of indicated value or $\pm 1^\circ\text{C}$, whichever is greater) ± 1 digit max. *1 Platinum resistance thermometer: ($\pm 0.1\%$ of indicated value or $\pm 0.5^\circ\text{C}$, whichever is greater) ± 1 digit max. Analog input: $\pm 0.1\%$ FS ± 1 digit max. CT input: $\pm 5\%$ FS ± 1 digit max.	
Transfer output accuracy	$\pm 0.3\%$ FS max.	
Influence of temperature *2	Thermocouple input (R, S, B, W, PLII): ($\pm 1\%$ of PV or $\pm 10^\circ\text{C}$, whichever is greater) ± 1 digit max.	
Influence of voltage *2	Other thermocouple input: ($\pm 1\%$ of PV or $\pm 4^\circ\text{C}$, whichever is greater) ± 1 digit max. *3	
Influence of EMS. (at EN 61326-1)	Platinum resistance thermometer: ($\pm 1\%$ of PV or $\pm 2^\circ\text{C}$, whichever is greater) ± 1 digit max. Analog input: ($\pm 1\%$ FS) ± 1 digit max.	
Input sampling period	60 ms	
Hysteresis	Temperature input: 0.1 to 3240.0°C or °F (in units of 0.1°C or °F) Analog input: 0.01% to 99.99% FS (in units of 0.01% FS)	
Proportional band (P)	Temperature input: 0.1 to 3240.0°C or °F (in units of 0.1 °C or °F) Analog input: 0.1% to 999.9% FS (in units of 0.1% FS)	
Integral time (I)	0.0 to 3240.0 s (in units of 0.1 s)	
Derivative time (D)	0.0 to 3240.0 s (in units of 0.1 s)	
Control period	0.5, 1 to 99 s (in units of 1 s)	
Manual reset value	0.0 to 100.0% (in units of 0.1%)	
Alarm setting range	-19999 to 32400 (decimal point position depends on input type)	
Affect of signal source resistance	Thermocouple: 0.1°C/ Ω max. (100 Ω max.) Platinum resistance thermometer: 0.1°C/ Ω max. (10 Ω max.)	
Insulation resistance	20 M Ω min. (at 500 VDC)	
Dielectric strength	2,300 VAC, 50 or 60 Hz for 1 min (between terminals with different charge)	
Vibration resistance	Malfunction	10 to 55 Hz, 20 m/s ² for 10 min each in X, Y, and Z directions
	Destruction	10 to 55 Hz, 0.75-mm single amplitude for 2 hrs each in X, Y, and Z directions
Shock resistance	Malfunction	100 m/s ² , 3 times each in X, Y, and Z directions
	Destruction	300 m/s ² , 3 times each in X, Y, and Z directions
Weight	Controller: Approx. 150 g, Mounting Bracket: Approx. 10 g	
Degree of protection	Front panel: IP66, Rear case: IP20, Terminals: IP00	
Memory protection	Non-volatile memory (number of writes: 1,000,000 times)	
Setup Tool	CX-Thermo version 4.3 or higher	
Setup Tool port	Provided on the bottom of the E5CN-HT. Use this port to connect a computer to the E5CN-HT. An E58-CIFQ1 USB-Serial Conversion Cable is required to connect the computer to the E5CN-HT. *4	
Standards	Approved standards	UL 61010-1, CSA C22.2 No. 1010-1
	Conformed standards	EN 61010-1 (IEC 61010-1): Pollution level 2, overcurrent category II
EMC	EMI: Radiated Interference Electromagnetic Field Strength: Noise Terminal Voltage: EMS: ESD Immunity: Electromagnetic Field Immunity: Burst Noise Immunity: Conducted Disturbance Immunity: Surge Immunity: Power Frequency Magnetic Field Immunity: Voltage Dip/Interrupting Immunity:	EN 61326-1 *5 EN 55011 Group 1, class A EN 55011 Group 1, class A EN 61326-1 *5 EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-6 EN 61000-4-5 EN 61000-4-8 EN 61000-4-11

*1. The indication accuracy of K thermocouples in the -200 to 1300°C range, T and N thermocouples at a temperature of -100°C max., and U and L thermocouples at any temperatures is $\pm 2^\circ\text{C} \pm 1$ digit max. The indication accuracy of the B thermocouple at a temperature of 400°C max. is not specified. The indication accuracy of B thermocouples in the 400 to 800°C range is $\pm 3^\circ\text{C}$ max. The indication accuracy of the R and S thermocouples at a temperature of 200°C max. is $\pm 3^\circ\text{C} \pm 1$ digit max. The indication accuracy of W thermocouples is ± 0.3 of PV or $\pm 3^\circ\text{C}$, whichever is greater, ± 1 digit max. The indication accuracy of PL II thermocouples is ± 0.3 of PV or $\pm 2^\circ\text{C}$, whichever is greater, ± 1 digit max.

*2. Ambient temperature: -10°C to 23°C to 55°C , Voltage range: -15% to 10% of rated voltage

*3. K thermocouple at -100°C max.: $\pm 10^\circ\text{C}$ max.

*4. External communications (RS-232C or RS-485) and cable communications for the Setup Tool can be used at the same time.

*5. Industrial electromagnetic environment (EN/IEC 61326-1 Table 2)

Program Control

Number of programs (patterns)	8	
Number of segments (steps)	32	
Segment setting method	Time setting (Segment set with set point and time.)	
	Gradient setting (Segment type with set point, gradient, and time.)	
Segment times	0 h 0 min to 99 h 59 min	
	0 min 0 s to 99 min 59 s	
Alarm setting	Set separately for each program.	
Reset operation	Select either stopping control or fixed SP operation.	
Startup operation	Select continuing, resetting, manual operation, or run mode.	
PID sets	Number of sets	8
	Setting method	Set separately for each program (automatic PID group selection also supported).
Alarm SP function	Select from ramp SP and target SP.	
Program status control	Segment operation	Advance, hold
	Program operation	Program repetitions and program links
Wait operation	Wait method	Waiting at segment ends
	Wait width setting	Same wait width setting for all programs
Time signals	Number of outputs	2
	Number of ON/OFF Operations	1 each per output
	Setting method	Set separately for each program.
Program status output	Program end output (pulse width can be set), run output, stage output	
Program startup operation	PV start	Select from segment 1 set point, slope-priority PV start
	Standby	0 h 0 min to 99 h 59 min
		0 day 0 h to 99 day 23h
Operation end operation	Select from resetting, continuing control at final set point, and fixed SP control.	
Program SP shift	Same program SP shift for all programs	

USB-Serial Conversion Cable

Applicable OS	Windows XP/Vista/7/8/8.1/10
Applicable software	CX-Thermo version 4 or higher
Applicable models	E5AN/E5EN/E5CN/E5CN-U/ E5AN-H/E5EN-H/E5CN-H/E5AN- HT/E5EN-HT/E5CN-HT
USB interface standard	Conforms to USB Specification 1.1.
DTE speed	38400 bps
Connector specifications	Computer: USB (type A plug) Temperature Controller: Setup Tool port (on bottom of Controller)
Power supply	Bus power (Supplied from USB host controller.)
Power supply voltage	5 VDC
Current consumption	70 mA
Ambient operating temperature	0 to 55°C (with no condensation or icing)
Ambient operating humidity	10% to 80%
Storage temperature	-20 to 60°C (with no condensation or icing)
Storage humidity	10% to 80%
Altitude	2,000 m max.
Weight	Approx. 100 g

Note: A driver must be installed in the personal computer. Refer to installation information in the operation manual for the Conversion Cable.

Communications Specifications

Transmission line connection method	RS-485: Multipoint RS-232C: Point-to-point
Communications	RS-485 (two-wire, half duplex)/RS-232C
Synchronization method	Start-stop synchronization
Protocol	CompoWay/F or Modbus
Baud rate	1200, 2400, 4800, 9600, 19200, 38400, or 57600 bps
Transmission code	ASCII (CompoWay/F, SYSWAY) RTU (Modbus)
Data bit length *	7 or 8 bits
Stop bit length *	1 or 2 bits
Error detection	Vertical parity (none, even, odd) Block check character (BCC) with CompoWay/F or CRC-16 Modbus
Flow control	None
Interface	RS-485, RS-232C
Retry function	None
Communications buffer	217 bytes
Communications response wait time	0 to 99 ms Default: 20 ms

* The baud rate, data bit length, stop bit length, and vertical parity can be individually set using the Communications Setting Level.

Current Transformer (Order Separately) Ratings

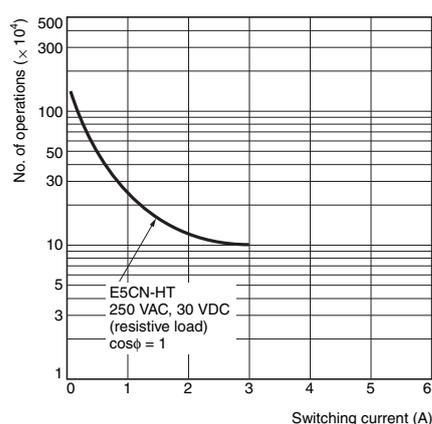
Dielectric strength	1,000 VAC for 1 min
Vibration resistance	50 Hz, 98 m/s ²
Weight	E54-CT1: Approx. 11.5 g, E54-CT3: Approx. 50 g
Accessories (E54-CT3 only)	Armatures (2) Plugs (2)

Heater Burnout Alarms, SSR Failure Alarms, and Heater Overcurrent Alarms

CT input (for heater current detection)	Models with detection for single- phase heaters: One input Models with detection for single- phase or three-phase heaters: Two inputs
Maximum heater current	50 A AC
Input current indication accuracy	±5% FS ±1 digit max.
Heater burnout alarm setting range *1	0.1 to 49.9 A (in units of 0.1 A) Minimum detection ON time: 100 ms
SSR failure alarm setting range *2	0.1 to 49.9 A (in units of 0.1 A) Minimum detection OFF time: 100 ms
Heater overcurrent alarm setting range *3	0.1 to 49.9 A (in units of 0.1 A) Minimum detection ON time: 100 ms

- *1. For heater burnout alarms, the heater current will be measured when the control output is ON, and the output assigned to the alarm 1 function will turn ON if the heater current is lower than the set value (i.e., heater burnout detection current value).
- *2. For SSR failure alarms, the heater current will be measured when the control output is OFF, and the output assigned to the alarm 1 function will turn ON if the heater current is higher than the set value (i.e., SSR failure detection current value).
- *3. For heater overcurrent alarms, the heater current will be measured when the control output is ON, and the output assigned to the alarm 1 function will turn ON if the heater current is higher than the set value (i.e., heater overcurrent detection current value).

Electrical Life Expectancy Curve for Relays (Reference Values)



External Connections

- A voltage output (control output, for driving SSR) is not electrically insulated from the internal circuits. When using a grounding thermocouple, do not connect any of the control output terminals to ground. If the control output terminals are connected to ground, errors will occur in the measured temperature values as a result of leakage current.

Controllers

Control output 1

Relay output
250 VAC, 3 A
(resistive load)

Voltage output
(for driving SSR)
12 VDC, 21 mA

Linear voltage output
0 to 10 VDC
Load 1 kΩ min.

Current output
0 to 20 mA DC
4 to 20 mA DC
Load 600 Ω max.

The Temperature Controller is set for a K-type thermocouple (input type = 5) by default. An input error (5.ERR) will occur if the input type setting does not agree with the temperature sensor. Check the input type.

Auxiliary outputs (relay outputs)
250 VAC, 3 A
(resistive load)

A heater burnout alarm, SSR failure, heater overcurrent alarm, or input alarm is sent to the output to which the alarm 1 function is assigned.

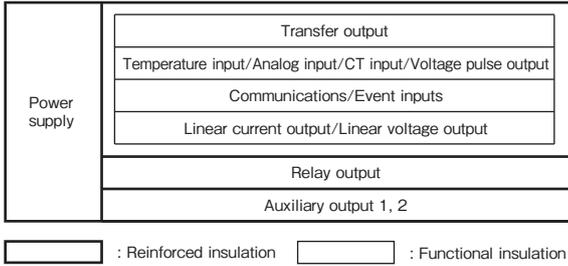
- 100 to 240 VAC
- 24 VAC/VDC (no polarity)

Option Units

<p>E53-CNBN2 Event Inputs</p>	<p>E53-CNQBN2 * Event Inputs and Control Output 2</p>	<p>E53-CNHBN2 Event Inputs and CT</p>	<p>E53-CNBFN2 Event Inputs and Transfer Output</p>
<p>E53-CNQHNN2 * Control Output 2 and CT2</p>	<p>E53-CNQFN2 * Control Output 2 and Transfer Output</p>	<p>E53-CN01N2 Communications (RS-232)</p>	<p>E53-CNH01N2 Communications (RS-232) and CT</p>
<p>E53-CN03N2 Communications (RS-485)</p>	<p>E53-CNQ03N2 * Communications (RS-485) and Control Output 2</p>	<p>E53-CNH03N2 Communications (RS-485) and CT</p>	<p>E53-CNHH03N2 Communications (RS-485) and CT2</p>
<p>E53-CNQHNN2 * Control Output 2 and CT</p>			

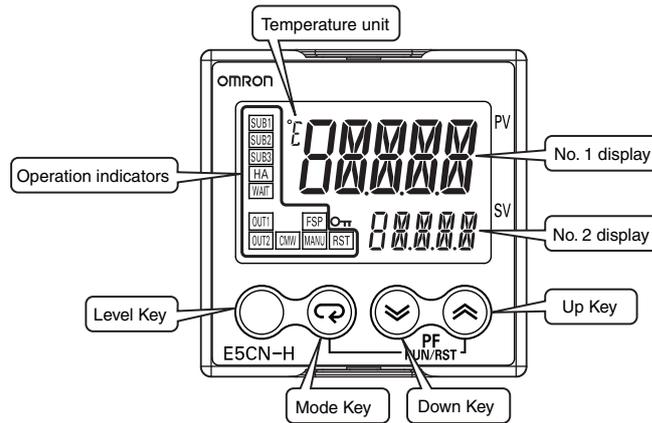
Note: Wire all voltage input terminals correctly. The Controller may fail if voltage input terminals are wired incorrectly.
 * Orders will not be accepted after March 31, 2018.

Isolation/Insulation Block Diagrams



Nomenclature

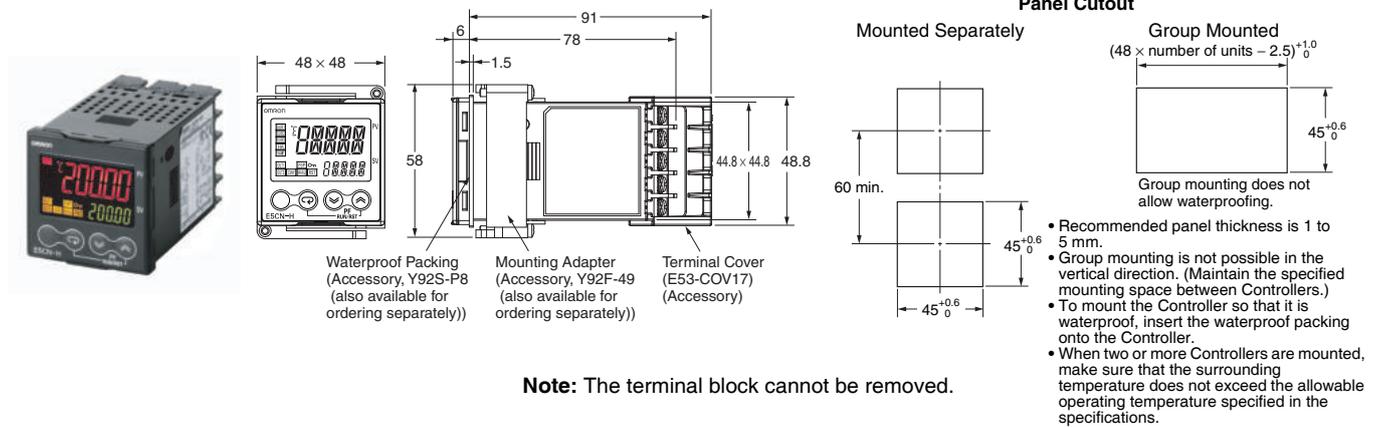
E5CN-HT



Dimensions

(Unit: mm)

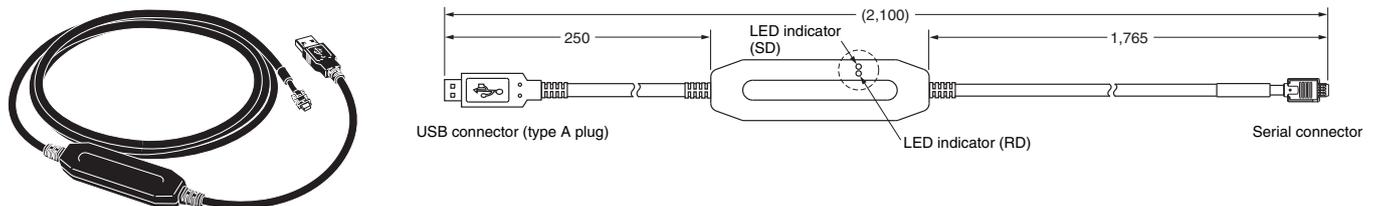
E5CN-HT



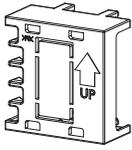
Accessories (Order Separately)

USB-Serial Conversion Cable

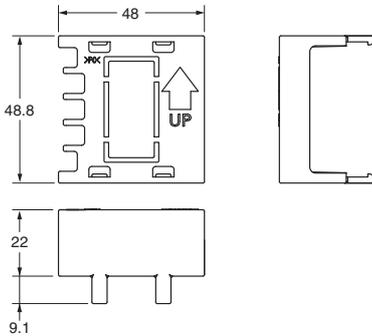
E58-CIFQ1



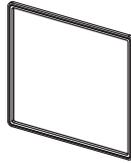
Terminal Cover
E53-COV17



Note: The E53-COV10 can not be used.



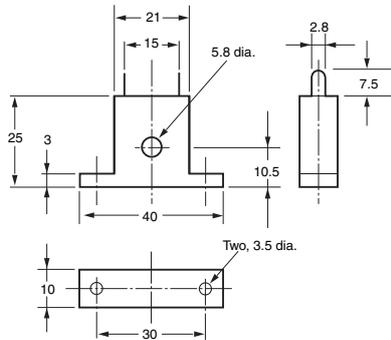
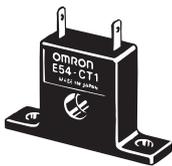
Waterproof Packing
Y92S-P8 (for DIN 48 × 48)



Order the Waterproof Packing separately if it becomes lost or damaged.
The Waterproof Packing can be used to achieve an IP66 degree of protection.
(Deterioration, shrinking, or hardening of the waterproof packing may occur depending on the operating environment. Therefore, periodic replacement is recommended to ensure the level of waterproofing specified in IP66. The time for periodic replacement depends on the operating environment. Be sure to confirm this point at your site. Consider one year a rough standard. OMRON shall not be liable for the level of water resistance if the customer does not perform periodic replacement.)
The Waterproof Packing does not need to be attached if a waterproof structure is not required.

Current Transformers

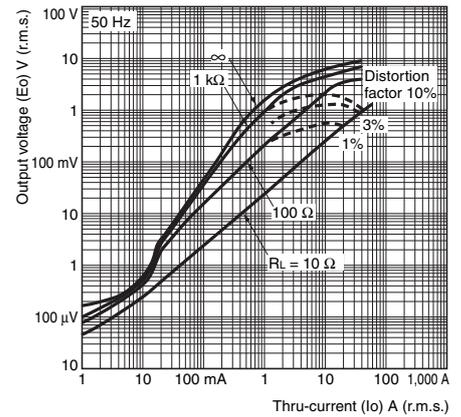
E54-CT1



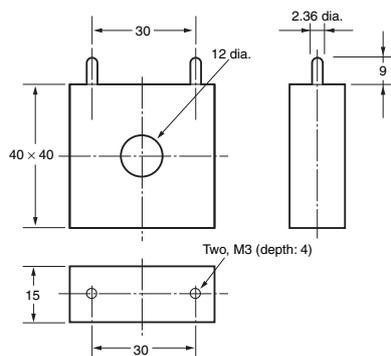
E54-CT1

Thru-current (Io) vs. Output Voltage (Eo) (Reference Values)

Maximum continuous heater current: 50 A (50/60 Hz)
Number of windings: 400±2
Winding resistance: 18±2 Ω



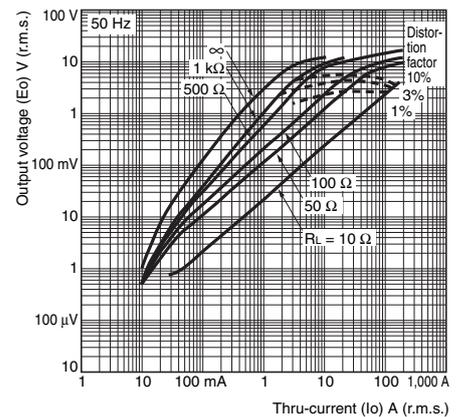
E54-CT3



E54-CT3

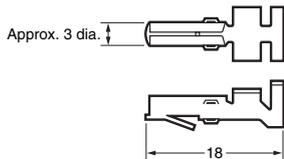
Thru-current (Io) vs. Output Voltage (Eo) (Reference Values)

Maximum continuous heater current: 120 A (50/60 Hz)
(Maximum continuous heater current for an OMRON Temperature Controller is 50 A.)
Number of windings: 400±2
Winding resistance: 8±0.8 Ω

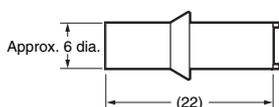


E54-CT3 Accessory

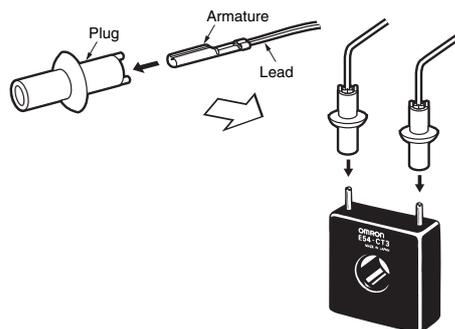
• **Armature**



• **Plug**

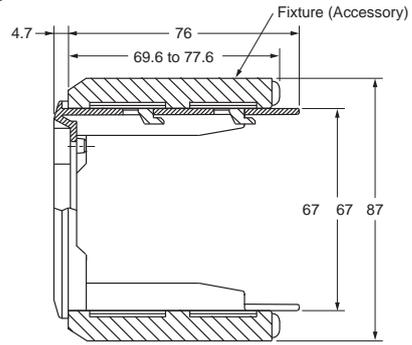
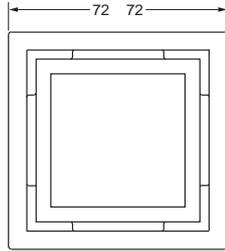
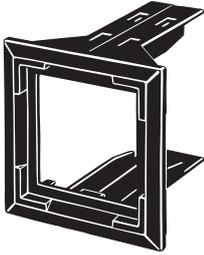


Connection Example

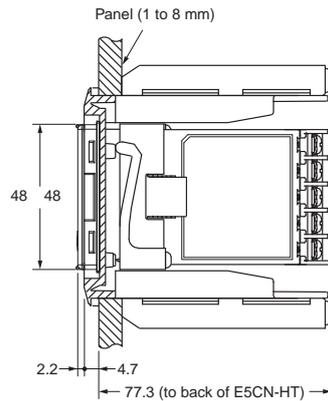
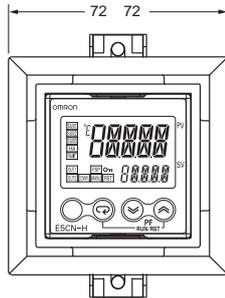
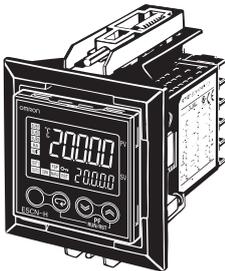


Adapter

Y92F-45 Note: 1. Use this Adapter when the panel has already been prepared for the E5B□.
 2. The Adapter is available only in black.

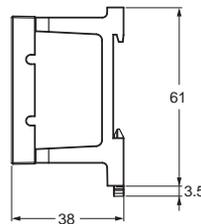
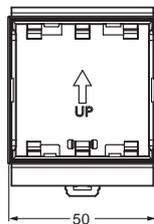
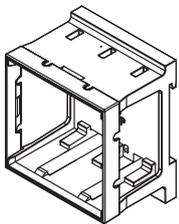


Mounted to E5CN-HT

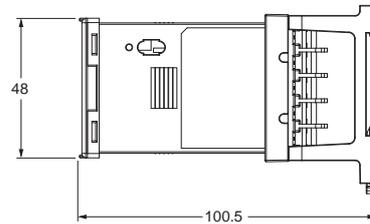
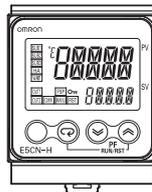


DIN Track Mounting Adapter

Y92F-52 Note: This Adapter cannot be used together with the Terminal Cover.
 Remove the Terminal Cover to use the Adapter.



Mounted to E5CN-HT



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