

E5CC

Digital Controller

EN INSTRUCTION MANUAL

Thank you for purchasing the OMRON E5CC Digital Controller. This manual describes the functions, performance, and application methods needed for optimum use of the product. Please observe the following items when using the product.

- This product is designed for use by qualified personnel with a knowledge of electrical systems.
- Before using the product, thoroughly read and understand this manual to ensure correct use.
- Keep this manual in a safe location so that it is available for reference whenever required.

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Refer to the *E5CC Digital Controllers User's Manual* (Cat. No. H174) for detailed application procedures.

CC1

3686257-7C

Safety Precautions

Key to Warning Symbols

CAUTION Indicates a potentially hazardous situation which, if not avoided, is likely to result in minor or moderate injury or property damage. Read this manual carefully before using the product.

Warning Symbols

CAUTION

Minor injury due to electric shock may occasionally occur. Do not touch the terminals while power is being supplied.

Electric shock, fire, or malfunction may occasionally occur. Do not allow metal objects, conductors, cuttings from installation work, moisture, or other foreign matter to enter the Digital Controller, the Setup Tool ports, or between the pins on the connectors on the Setup Tool cable. Attach the cover to the front-panel Setup Tool port whenever you are not using it to prevent foreign objects from entering the port.

Minor injury from explosion may occasionally occur. Do not use the product where subject to flammable or explosive gases.

Fire may occasionally occur. Do not allow dirt or other foreign objects to enter a Setup Tool port, or between the pins on the connectors on the Setup Tool cable.

Minor electric shock, fire, or malfunction may occasionally occur. Never disassemble, modify, or repair the product or touch any of the internal parts.

CAUTION - Risk of Fire and Electric Shock

- (a) This product is UL listed as Open Type Process Control Equipment. It must be mounted in an enclosure that does not allow fire to escape externally.
- (b) More than one disconnect switch may be required to de-energize the equipment before servicing.
- (c) Signal inputs are SELV, limited energy.
- (d) Caution: To reduce the risk of fire or electric shock, do not interconnect the outputs of different Class 2 circuits.
- (e) E5CC-U, E5GC products: Use wires with heat resistance of 65°C min to wire the terminals because the maximum terminal temperature is 65°C. Other models of products: Use wires with heat resistance of 75°C min to wire the terminals because the maximum terminal temperature is 75°C.

If the output relays are used past their life expectancy, contact fusing or burning may occasionally occur. Always consider the application conditions and use the output relays within their rated load and electrical life expectancy. The life expectancy of output relays varies considerably with the output load and switching conditions.

If you replace only the Main Unit of the E5DC or E5DC-B, check the condition of the Terminal Unit.

If corroded terminals are used, contact failure in the terminals may cause the temperature inside the Digital Controller to increase, possibly resulting in fire. If the terminals are corroded, replace the Terminal Unit as well.

Loose screws may occasionally result in fire. Tighten the terminal screws to the specified torque of 0.43 to 0.58 N·m.*1

Set the parameters of the product so that they are suitable for the system being controlled. If they are not suitable, unexpected operation may occasionally result in property damage or accidents.

A malfunction in the Digital Controller may occasionally make control operations impossible or prevent alarm outputs, resulting in property damage. To maintain safety in the event of malfunction of the Digital Controller, take appropriate safety measures, such as installing a monitoring device on a separate line.

*1 The specified torque is 0.5 N·m for the E5CC-U.

Suitability for Use

Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product.

At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

Precautions for Safe Use

Be sure to observe the following precautions to prevent operation failure, malfunction, or safety effects on the perfect effects of the functions of the product. Do not do so may occasionally result in unexpected events.

- Use the product within specifications.
- (1) The product is designed for indoor use only. Do not use the product outdoors. Do not use or store the product in any of the following locations.
- Places directly subject to heat radiated from heating equipment.
 - Places subject to splashing liquid or oil atmosphere.
 - Places subject to direct sunlight.
 - Places subject to dust or corrosive gas (in particular, sulfide gas and ammonia gas).
 - Places subject to intense temperature change.
 - Places subject to icing and condensation.
 - Places subject to vibration and large shocks.
- (2) Use and store the product within the rated ambient temperature and humidity range. When multiple Digital Controllers are mounted in close contact or stacked vertically, heat generated by the controllers can cause the internal temperature of each unit to rise, which may shorten their service life. In such cases, provide forced cooling, for example by directing airflow from a fan toward the controllers.
- (3) To allow heat to escape, do not block the area around the product. Do not block the ventilation holes on the product.
- (4) Be sure to wire properly with correct polarity of terminals.
- (5) To connect bare wires, use copper stranded or solid wires. Use the wire sizes and stripping lengths given in the following table to prevent smoking and firing of the wiring material.

Model	Recommended wires	Stripping length
E5CC, E5EC, E5AC, E5DC, or E5GC (models with screw terminal blocks)	AWG24 to AWG18 (0.21 to 0.82 mm ²) Copper stranded or solid wires	6 to 8 mm
E5GC (models with screwless clamp terminal blocks)	AWG24 to AWG14 (0.21 to 2.08 mm ²) Copper stranded or solid wires	8 to 12 mm
E5CC-U (plug-in models)	AWG24 to AWG14 (0.21 to 2.08 mm ²) Copper stranded or solid wires	5 to 6 mm
E5CC-B (models with Push-In Plus terminal blocks)*1	0.25 to 1.5 mm ² (equivalent to AWG24 to AWG16) Copper stranded or solid wires	With ferrules: 10 mm Without ferrules: 8 mm

*1 Use Ferrules with UL certification (R/C).

Connect only one wire to each terminal.

Use the specified size of crimped terminals to wire the E5CC, E5EC, E5AC, E5DC, and E5GC (models with screw terminal blocks) as well as the E5CC-U (plug-in models).

- Crimp Terminal Sizes**
- | Model | Crimp terminal size |
|---|--------------------------|
| E5CC, E5EC, E5AC, E5DC, or E5GC (models with screw terminal blocks) | M3, Width: 5.8 mm max. |
| E5CC-U (plug-in models) | M3.5, Width: 7.2 mm max. |
- E5CC-B (models with Push-In Plus terminal blocks) Do not insert multiple wires into a single terminal (insertion) hole.
- E5CC (models with screw terminals) When connecting two wires to a single terminal, be sure to use ferrules (twin ferrules). *1 Select ferrules that meet the following specifications:
- Outer diameter: 0.8 to 1.4 mm
 - Length of exposed conductive part: 8 to 12 mm
 - Must be a double crimp (twin) type
- *1 The E5GC (models with screwless clamp terminal blocks) has been UL tested with a single stranded wire connected.
- (6) Do not wire the terminals that are not used.
- (7) To prevent inductive noise, keep the wiring of the Digital Controller separate from high-voltage or high-current power lines. Do not run the controller wiring parallel to or in the same conduit as power lines. Effective measures include using separate conduits or ducts and using shielded cables. Install surge absorbers or noise filters on nearby equipment that generates noise, especially devices with inductive components such as motors, transformers, solenoids, and magnetic coils. When using a noise filter on the power supply, check the voltage and current ratings, and install the filter as close to the Digital Controller as possible. Also, keep the controller as far as possible from equipment that generates strong high-frequency signals (such as high-frequency welders or sewing machines) or equipment that produces surges.
- (8) Use the product within the rated power supply voltage and load.
- (9) Make sure that the rated voltage is attained within two seconds of turning ON the power using a switch or relay contact. If the voltage is applied gradually, the power may not rise sufficiently to achieve normal operation.
- (10) Make sure that the Digital Controller has 30 minutes or more to warm up after turning ON the power before starting actual control operations to ensure the correct temperature display.
- (11) When executing self-tuning, turn on the power for both the load and the Digital Controller simultaneously, or turn on the load power before the controller power. If you turn on the controller power first and then the load power, proper self-tuning and optimal control cannot be achieved.
- (12) A switch or circuit breaker should be provided close to this unit. The switch or circuit breaker should be within easy reach of the operator, and must be marked as a disconnecting means for the controller.
- (13) Wipe off any dirt from the Digital Controller with a soft dry cloth. Never use thinners, benzine, alcohol, or any cleaners that contain these or other organic solvents. Deformation or discoloration may occur.
- (14) Design the system (control panel, etc.) considering a 2-second delay before the controller's output is set after power ON.
- (15) The output will turn OFF when power is returned to the Initial Setting Level. Take this into consideration when performing control.
- (16) The number of non-volatile memory write operations is limited. Therefore, use RAM write memory when frequently overwriting data during communications or other operations.
- (17) Always touch a grounded piece of metal before touching the Digital Controller to discharge static electricity from your body.
- (18) Use suitable tools when taking the Digital Controller apart for disposal. Sharp parts inside the Digital Controller may cause injury.
- (19) For compliance with Lloyd's standards, the E5CC, E5CC-U, E5CC-B, E5EC, E5EC-B, E5AC, and E5DC must be installed under the conditions that are specified in Shipping Standards.
- (20) Do not connect cables to both ports at the same time. The Digital Controller may be damaged or may malfunction.
- (21) Do not exceed the communications distance that is given in the specifications and use the specified communications cable.
- (22) Do not turn the power supply to the Digital Controller ON or OFF while the USB-Serial Conversion Cable is connected. The Digital Controller may malfunction.
- (23) Do not bend the communications cables past their natural bending radius. Do not pull on the communications cables.
- (24) For the E5DC and E5DC-B, when you attach the Main Unit to the Terminal Unit, make sure that the hooks on the Main Unit are securely inserted into the Terminal Unit.
- (25) For the E5CC-U, when you attach the Main Unit to the socket, make sure that the hooks on the socket are securely inserted into the Main Unit.
- (26) Install the DIN Track vertically to strengthen the connection.
- (27) For the E5DC and E5DC-B, always turn OFF the power supply before connecting the Main Unit to or disconnecting the Main Unit from the Terminal Unit, and never touch or apply shock to the terminals or electronic components. When connecting or disconnecting the Main Unit, do not allow the electronic components to touch the case.
- (28) Observe the following precautions when you remove the terminal block or pull out (draw out) the interior of the E5GC.
- Turn OFF the power supply before you start and never touch or apply shock to the terminals or electronic components. When you insert the interior body of the Digital Controller, do not allow the electronic components to touch the case.
 - Check for any corrosion on the terminals.
 - When you insert the interior body into the rear case, confirm that the hooks on the top and bottom are securely engaged with the case.
- (29) Observe the following precautions when wiring the E5CC-B.
- Do not wire anything to the release holes.
 - Do not tilt or twist a flat-blade screwdriver while it is inserted into a release hole on the terminal block. The terminal block may be damaged.
 - Insert a flat-blade screwdriver into the release holes at an angle. The terminal block may be damaged if you insert the screwdriver straight in.
 - Do not allow the flat-blade screwdriver to fall out while it is inserted into a release hole.
 - Do not bend a wire past its natural bending radius or pull on it with excessive force. Doing so may cause the wire to break.
 - Do not perform crossover wiring except for the input power supply and communications. (E5CC-B/E5EC-B only)
- (30) Do not perform crossover wiring. (E5DC-B only)
- (31) Use a commercial power supply for the power supply voltage input to a Digital Temperature Controller with AC input specifications. Do not use the output from an inverter as the power supply. Depending on the output characteristics of the inverter, temperature increases in the Digital Temperature Controller may cause smoke or fire damage even if the inverter has a specified output frequency of 50/60 Hz.
- (32) Do not use the product if the front sheet is peeled off. The front sheet is a structural part of the product and is different from the protective film. The protective film is intended to prevent scratches during transportation. Remove the protective film before using the product.

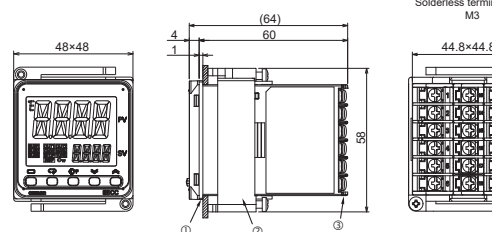
Specifications

Power supply voltage	100 to 240 VAC, 50/60 Hz or 24 VAC, 50/60 Hz / 24 VDC 85 to 110% of the rated voltage
Operating voltage range	5.2 VA max. (100 to 240 VAC) 3.1 VA max. (24 VAC) 1.6 W max. (24 VDC) 6.5 VA max. (100 to 240 VAC) 4.1 VA max. (24 VAC)/2.3 W max. (24 VDC)
Power consumption	Option 000:
All other specifications:	Thermocouple: ±0.3 % of indication value or ±1°C, whichever is greater) ±1 digit max. Platinum resistance thermometer: ±0.2 % of indication value or ±0.8°C, whichever is greater) ±1 digit max. Analog input: ±0.2 % FS ±1 digit max. Output current: approx. 7 mA per contact. ON: 1 kΩ max., OFF: 100 kΩ min. ON: residual voltage 1.5 V max. OFF: leakage current 0.1 mA max. 4 to 20 mA DC or 0 to 20 mA DC 0 to 5 V DC or 1 to 5 V DC or 0 to 10 V DC
Event input	Relay output : SPST-NO 250VAC, 3A(resistive load) Electrical life of relay: 100,000 operations Voltage output (for driving SSR): 12 VDC ±20%, 21 mA Current output: 4 to 20 mA DC, 0 to 20 mA DC Load: 500 Ω max.
Contact input	Voltage output (for driving SSR): 12 VDC, 21 mA ON/OFF or 2-PID control Relay outputs: SPST-NO, 250 VAC, two outputs: 3 A (resistive load), three outputs: 2 A (resistive load). Electrical life of relay: 100,000 operations 1 to 5 VDC with load of 1 kΩ min. -10 to 55°C (Avoid freezing or condensation) 25% to 85% -25 to 65°C (Avoid freezing or condensation) Max. 2,000m T2A, 250 VAC, time-lag, low-breaking capacity Approx. 120 g (Digital Controller only) Front panel: IP69 Rear case: IP20, Terminal section: IP00 Installation category: II, pollution degree 2 (as per IEC61010-1) Number of write operations: 1,000,000 Short term: 1200 V+ (power supply voltage) Long term: 250 V+ (power supply voltage)
No-contact input	
Remote SP input	
Control output 1	
Control output 2	
Control method	
Auxiliary outputs	
Transfer output	
Ambient temperature	
Humidity	
Storage temperature	
Altitude	
Recommended fuse	
Weight	
Degree of protection	
Installation environment	
Memory protection	
Temporary overvoltage	

Wiring

Dimensions

Dimensions (mm)



* Do not remove the terminal block. Doing so may result in failure or malfunction.

* A Setup Tool port is provided on the upper of the product. Use this port to connect a personal computer to the product when using the Setup Tool. E5B-CIF02 USB-Serial Conversion Cable is required to connect the personal computer to the product. (Do not use the product with the USB-Serial Conversion Cable left permanently connected.)

Refer to the instruction manual provided with the USB-Serial Conversion Cable for details on connection methods.

Names of Parts on Front Panel

• °C / °F : temperature unit
The temperature unit is displayed when the displayed value is a temperature. Either °C or °F is displayed according to the set value of the temperature unit.

• Level key
Use this key to change levels:

• Mode key
Press this key to change the contents of the display. Press this button for 1 s or longer for reverse scroll.

• Press the key and the key together for at least 3 seconds to switch to protect level.

• Shift key (PF key)
The default PF function key is for shifting the digit. This is a setting key. When it is pressed, the function set for the PF Setting parameter will operate.

• No. 1 display
Process value or set data type

• No. 2 display
Set point, set data read-out value or changed input value

• Up and Down keys
Each press of (▲) key increments or advances the values displayed on the No. 2 display. Each press of (▼) key decrements or returns the values displayed on the No. 2 display.

• Operation indicators
• SUB1: Auxiliary output 1 indicator
• SUB2: Auxiliary output 2 indicator
• SUB3: Auxiliary output 3 indicator
• OUT1: Control output 1 indicator
• OUT2: Control output 2 indicator
• RSP: Remote SP indicator
Lit when the assigned function is ON

• TUNE:
Flashing during self-tuning.
Lit during auto-tuning.

• STOP: Control stopped indicator
Lit when Run/Stop is stopped during operation. During control stop, functions other than control output are valid.

• CMW: Communications writing enabled/disabled indicator
Lit when communications writing is enabled and not lit when it is disabled.

• CM: Protection indicator
Lit when Setting Change Protect is ON (disables the Up and Down Keys).

• MANU: Manual output indicator
Lit when the Auto/Manual Mode is set to Manual Mode.

Operation Menu

Input Type

	Input type	Input	Setting	Setting range	
Temperature inputs	Platinum resistance thermometer	P100	0	-200 to 850 °C -199.9 to 500.0 °C 0.0 to 100.0 °C -199.9 to 900.0 °C	
			JP100	3	-199.9 to 500.0 °C -199.9 to 900.0 °C
				4	0 to 100.0 °C 0 to 210.0 °C
		Thermocouple	K	5	-200 to 1300 °C -20.0 to 500.0 °C 0.0 to 210.0 °C -20.0 to 900.0 °C
			J	6	-100 to 850 °C -20.0 to 400.0 °C 0.0 to 210.0 °C -20.0 to 1500 °C
			T	8	-200 to 400 °C -199.9 to 400.0 °C -300 to 700.0 °C
	Infrared Thermosensor	E	11	-200 to 600 °C -100 to 850 °C -300 to 1100 °C	
			12	-100 to 850 °C -20.0 to 400.0 °C -300 to 700.0 °C	
			U	13	-200 to 400 °C -199.9 to 400.0 °C -300 to 700.0 °C
		ES1B	N	14	-199.9 to 400.0 °C -200 to 1300 °C -300 to 2300 °C
			R	16	0 to 1700 °C 0 to 3000 °C
			S	17	0 to 1700 °C 0 to 3000 °C
	Analog input type	Current input	B	18	100 to 1800 °C 300 to 3200 °C
			W	19	0 to 2300 °C 0 to 3200 °C
			PL	20	0 to 1300 °C 0 to 2300 °C
		Voltage input	10 to 70 °C	21	0 to 90 °C 0 to 190 °C
			60 to 120 °C	22	0 to 120 °C 0 to 240 °C
			115 to 165 °C	23	0 to 165 °C 0 to 320 °C

*The default is "5".

*SEPR will be displayed when a platinum resistance thermometer is mistakenly connected while input type is not set for it. To clear the SEPR display, correct the wiring and cycle the power supply.

Alarms

Setting	Alarm type	Alarm output function	
		Positive alarm value (X)	Negative alarm value (X)
0	No alarm function	Output off	
*1	1 Deviation upper/lower limit	ON OFF 	Vary with "L", "H" values
	2 Deviation upper limit	ON OFF 	Vary with "L", "H" values
	3 Deviation lower limit	ON OFF 	Vary with "L", "H" values
*1	4 Deviation upper/lower range	ON OFF 	Vary with "L", "H" values
*1	5 Deviation upper/lower limit standby sequence ON	ON OFF 	Vary with "L", "H" values
	6 Deviation upper limit standby sequence ON	ON OFF 	Vary with "L", "H" values
	7 Deviation lower limit standby sequence ON	ON OFF 	Vary with "L", "H" values
8	Absolute value upper limit	ON OFF 	Vary with "L", "H" values
9	Absolute value lower limit	ON OFF 	Vary with "L", "H" values
10	Absolute value upper limit standby sequence ON	ON OFF 	Vary with "L", "H" values
11	Absolute value lower limit standby sequence ON	ON OFF 	Vary with "L", "H" values
12	LBA (only for alarm 1)		
13	PV Change Rate Alarm		
14	SP absolute value upper limit	ON OFF 	Vary with "L", "H" values
15	SP absolute value lower limit	ON OFF 	Vary with "L", "H" values
16	MV absolute value upper limit	ON OFF 	Vary with "L", "H" values
17	MV absolute value lower limit	ON OFF 	Vary with "L", "H" values
18	RSP absolute value upper limit	ON OFF 	Vary with "L", "H" values
19	RSP absolute value lower limit	ON OFF 	Vary with "L", "H" values

*1: Upper and lower limits can be set for parameters 1, 4 and 5 to provide for different types of alarm. These are indicated by the letter "L" and "H".

- The default alarm type is "2"

Conformance to EN/IEC Standards

This is a class A product.

In residential areas it may cause radio interference, in which case the user may be required to take adequate measures to reduce interference.

A 급 기기 (업무용 방송통신기자재)
이 기기는 업무용(A 급) 전자파합격기준에서 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다.

Conformance to Safety Standard

Reinforced insulation is provided between input power supply, relay outputs, and between other terminals.

Due to UL Listing requirements, use the E54-CT11 or E54-CT31 current transformer with the factory wiring (internal wiring). Use a UL category X0BA or X0BA7 current transformer that is UL Listed for field wiring (external wiring) and not the factory wiring (internal wiring).

Always externally connect the recommended fuse that is specified in the instruction Manual before you use the Digital Controller.

Analog Input
If you input an analog voltage or current, set the Input Type parameter to the correct input type.

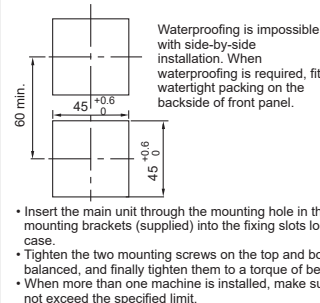
Do not use the Digital Controller to measure a circuit with Measurement Category II, III, or IV.

- Do not use the Digital Controller to measure an energized circuit in which a voltage that exceeds 30 Vrms or 60 VDC is applied.

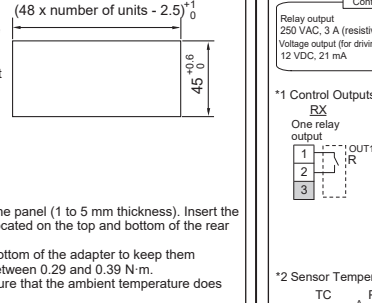
The protection provided by the Digital Controller may be impaired if the Digital Controller is used in a manner that is not specified by the manufacturer.

Installation

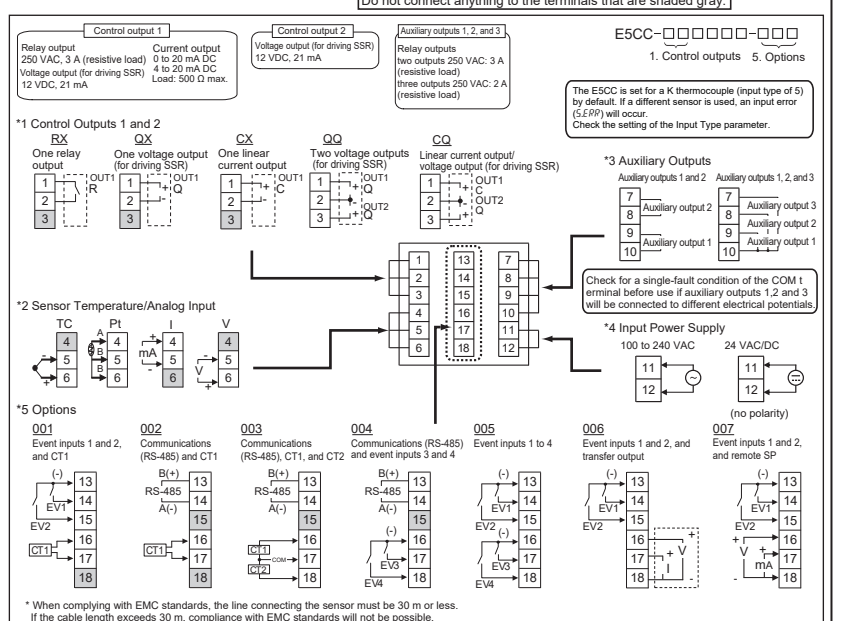
Individual mounting (mm)



Side-by-side mounting (mm)



Connections (The applicability of the electric terminals varies with the type of machine.)



Adjustment Level

Adjustment Level	Adjustment Level	Adjustment Level	Adjustment Level
AT Execute / Cancel	SP-3	Dead Band	Manual Reset Value
100%AT Execute	SP-4	Clears the offset during P or PD control.	
40%AT Execute	SP-5	Hysteresis (Heating)	
Communications Writing	SP-6	Hysteresis (Cooling)	
SP Mode	SP-7	Soak Time	
Heater Current 1 Value Monitor (Unit A)	PV Input Shift	Wait Band	
Heater Burnout Detection 1 (Unit A)	PV Input Slope Coefficient	MV at Stop	
Heater Current 2 Value Monitor (Unit A)	Remote SP Input Shift	MV at PV Error	
Heater Burnout Detection 2 (Unit A)	Remote SP Slope Coefficient	SP Ramp Set Value	
Leakage Current 1 Value Monitor (Unit A)	Remote SP Input Shift	SP Ramp Set Value (SP Ramp Fall Value)	
Leakage Current 2 Value Monitor (Unit A)	Proportional Band	SP Ramp Set Value (SP Ramp Fall Value)	
HS Alarm 1 (Unit A)	Integral Time (Unit: Seconds)	MV Upper Limit	
HS Alarm 2 (Unit A)	Derivative Time (Unit: Seconds)	MV Lower Limit	
SP-0	Proportional Band (Cooling)	MV Change Rate Limit	
SP-1	Integral Time (Unit: Seconds)	Extraction of Square Root Low-cut Point	
SP-2	Derivative Time (Unit: Seconds)	Communications Monitor	

Adjustment level is for entering set values and shift values for control.

Error Display (troubleshooting)

When an error has occurred, the No.1 display shows the error code. Take necessary measure according to the error code, referring the table below.

No.1 display	Meaning	Action	Status at error
SEPR (S. Err)	Input error *2	Check the setting of the Input Type parameter, check the input wiring, and for broken or shorts in the temperature sensor.	OFF
E333 (E333)	A/D converter error *2	After the correction of A/D converter error, turn the power OFF then back ON again. If the display remains the same, the controller must be repaired. If the display is restored to normal, then a probable cause can be external noise affecting the control system. Check for external noise.	OFF
E111 (E111)	Memory error	Turn the power OFF then back ON again. If the display remains the same, the controller must be repaired. If the display is restored to normal, then a probable cause can be external noise affecting the control system. Check for external noise.	OFF

If the input value exceeds the display limit (-1999 to 9999), though it is within the control range, E333 will be displayed under -1999 and E333 above 9999. Under these conditions, control output and alarm output will operate normally.

Refer to the *E5CC Digital Controllers User's Manual* (Cat. No. H174) for the controllable ranges.

*2: Error shown only for "Process value / Set point". Not shown for other statuses.

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