PRODUCT NEWS

Correction Reissue

Product Discontinuation Notices

OMRON

March 2, 2009

Temperature Controllers

No.2009076E

Discontinuation Notice of E5GN series Due to the renewal

REQUEST

There was modification in portion of product discontinuation notices of Product News No.2009076E of March 2, 2009 issue. Please abolish old edition, replace the latest No.2009076E.

Product Discontinuation

Temperature Controller

E5GN-[][][]TC
E5GN-[][][]P

Recommended Replacement

Temperature Controller

E5GN-[][][]T

(Thermocouple and platinum resistance thermometer can be switched by parameters)
(Sale schedule in October 2009)

Discontinuation date : The end of March, 2010

Caution on recommended replacement

- The model number is changed due to universal input types. The default value of Input Type parameter is modified from platinum resistance thermometer: Pt100 to thermocouple: K on the E5GN-[][][]P (models with platinum resistance thermometer). Change the setting of the Input Type to match the sensor that is used.
- Wiring and terminal arrangement are changed due to the modification of the terminal block. Be sure to wire properly.

Difference from discontinued product

Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
E5GN	--	*	*	*	**	**	*

** : Fully compatible
* : The change is a little/Almost compatible
-- : Not compatible
- : No corresponding specification

OMRON Corporation
Industrial Automation Company

No.DC-090358
20091026(1)

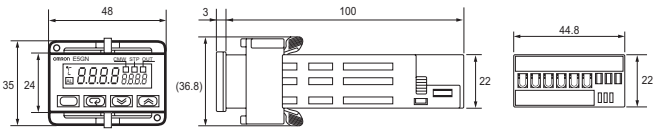
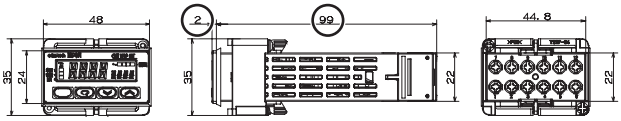
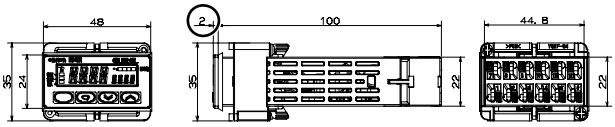
Product Discontinuation and recommended replacement

Product discontinuation	Recommended replacement
E5GN-RTC AC100-240	E5GN-RT AC100-240 E5GN-RT-C AC100-240
E5GN-RP AC100-240	
E5GN-QTC AC100-240	E5GN-QT AC100-240 E5GN-QT-C AC100-240
E5GN-QP AC100-240	
E5GN-R1TC AC100-240	E5GN-R1T AC100-240 E5GN-R1T-C AC100-240
E5GN-R1P AC100-240	
E5GN-Q1TC AC100-240	E5GN-Q1T AC100-240 E5GN-Q1T-C AC100-240
E5GN-Q1P AC100-240	
E5GN-R03TC-FLK AC100-240	E5GN-R103T-FLK AC100-240 E5GN-R103T-C-FLK AC100-240
E5GN-R03P-FLK AC100-240	
E5GN-Q03TC-FLK AC100-240	E5GN-Q103T-FLK AC100-240 E5GN-Q103T-C-FLK AC100-240
E5GN-Q03P-FLK AC100-240	
E5GN-RTC AC/DC24	E5GN-RTD AC/DC24 E5GN-RTD-C AC/DC24
E5GN-RP AC/DC24	
E5GN-QTC AC/DC24	E5GN-QTD AC/DC24 E5GN-QTD-C AC/DC24
E5GN-QP AC/DC24	
E5GN-R1TC AC/DC24	E5GN-R1TD AC/DC24 E5GN-R1TD-C AC/DC24
E5GN-R1P AC/DC24	
E5GN-Q1TC AC/DC24	E5GN-Q1TD AC/DC24 E5GN-Q1TD-C AC/DC24
E5GN-Q1P AC/DC24	
E5GN-R03TC-FLK AC/DC24	E5GN-R103TD-FLK AC/DC24 E5GN-R103TD-C-FLK AC/DC24
E5GN-R03P-FLK AC/DC24	
E5GN-Q03TC-FLK AC/DC24	E5GN-Q103TD-FLK AC/DC24 E5GN-Q103TD-C-FLK AC/DC24
E5GN-Q03P-FLK AC/DC24	

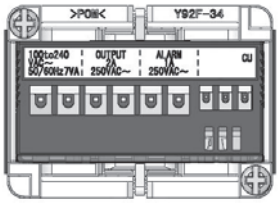
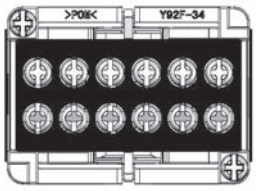
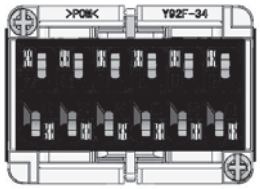
Case color

Product discontinuation E5GN-[][][]TC series E5GN-[][][]P series	Recommendable replacement E5GN-[][][]T series
Case color: Smoky Gray	Case color: Black

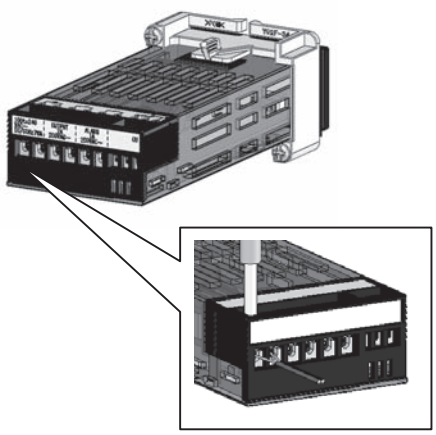
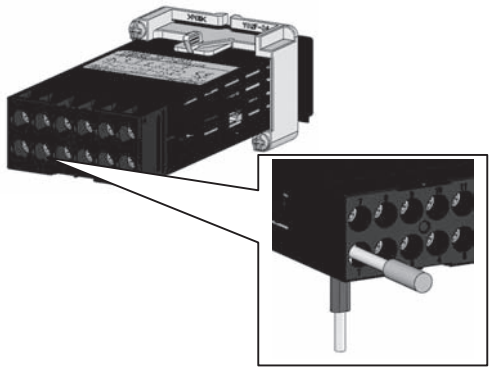
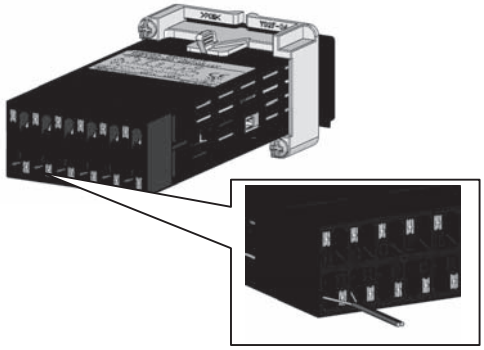
Dimensions

Product discontinuation E5GN-[][][]TC series E5GN-[][][]P series	Recommendable replacement E5GN-[][][]T series
 Thickness of the Bezel: 3 mm Depth: 100 mm	Two types of terminal block, Models with Screw Terminals and Models with Screw-Less Terminals. Dimensions are modified. [Models with Screw Terminals]  Thickness of the Bezel: 2 mm Depth: 99 mm Shape of the slit is modified. [Models with Screw-Less Terminals]  Thickness of the Bezel: 2 mm. Shape of the slit is modified.

Terminal Arrangement /Wire Connection

Product discontinuation E5GN-[][][]TC series E5GN-[][][]P series	Recommendable replacement E5GN-[][][]T series
Terminal blocks [Screw Terminals] Terminals 1 to 6 for M2.6 screws Terminals 7 to 9 for M2 screws  	[Screw Terminals] Terminals 1 to 12 for M3 screws  [Screw-Less Terminals] Terminals 1 to 12 for non-screws 

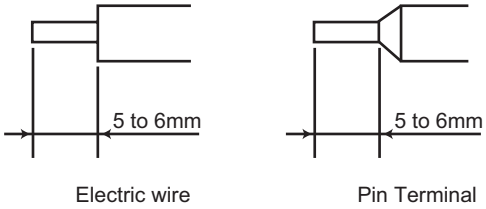
Terminal Arrangement /Wire Connection

Product discontinuation E5GN-[][][]TC series E5GN-[][][]P series	Recommendable replacement E5GN-[][][]T series
Wiring Connections Which way to draw out : Vertically against the terminal block 	[Models with Screw Terminals] Which way to draw out: Horizontally against the terminal block  [Models with Screw-Less Terminals] Which way to draw out : Vertically against the terminal block 

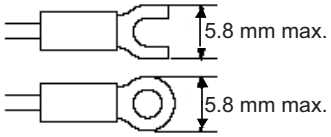
Terminal Arrangement /Wire Connection

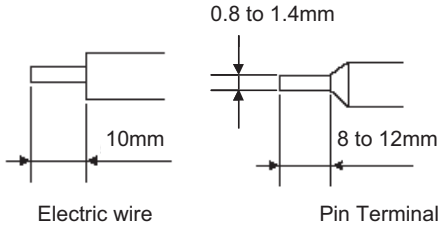
Product discontinuation E5GN-[][][]TC series E5GN-[][][]P series	Recommendable replacement E5GN-[][][]T series
Wiring Terminals [Screw Terminals] Terminals are connected as described below. The stripping length that is inserted into the terminals is 5 to 6 mm. Tighten the terminal screws firmly.	[Models with Screw Terminals] Modified from pin terminals to crimp terminals for M3 screws. Tighten Torque 0.5N·m [Models with Screw-Less Terminals] Electric wire: changed from "5 to 6 mm" to "10 mm" Pin Terminals: changed from "5 to 6 mm" to "8 to 12 mm"

Connected Terminals	Electric Wire	Pin Terminals
Terminals 1 to 6	AWG24 to AWG14	ϕ2.1mm max.
Terminals 7 to 9	AWG28 to AWG22	ϕ1.3mm max.



Connected Terminals	Screw that is used	Tightening Torque
Terminals 1 to 6	M2.6	0.23 to 0.25 N·m
Terminals 7 to 9	M2	0.12 to 0.14 N·m





Terminal Arrangement /Wire Connection

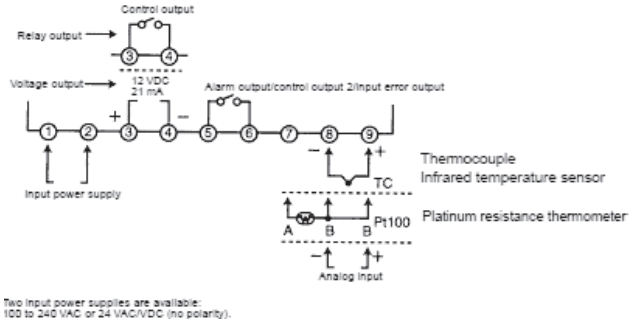
Product discontinuation E5GN-[][][]TC series E5GN-[][][]P series	Recommendable replacement E5GN-[][][]T series

Terminal Arrangement

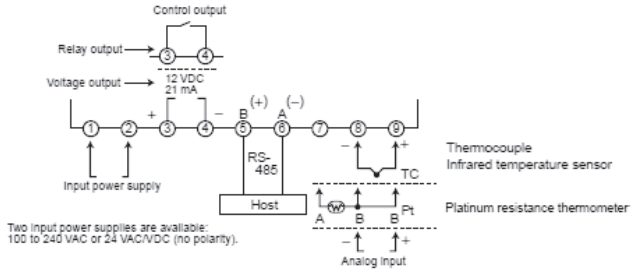
Number of Terminals: 9 terminals (1) to (9)

Input terminals: (7) to (9)
RS-485 communications terminals: (5)(6)

[Standard Model]



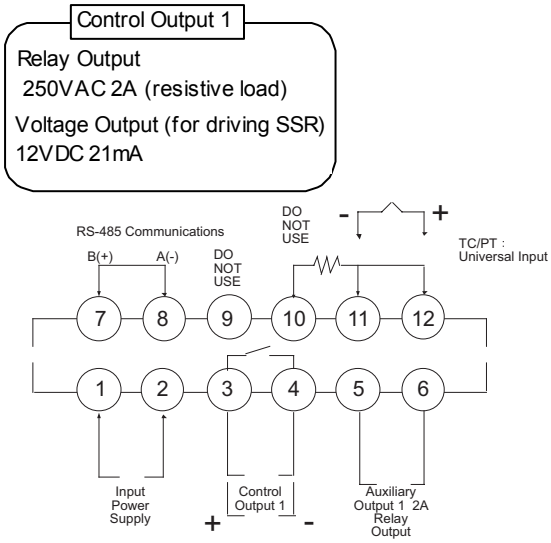
[Communication Model]



	FROM
Input Power Supply	(1)(2)
Control Output	(3)(4)
Alarm output/ Control output 2/ Input error output	(5)(6)
Input Terminal	(7)(8)(9)
RS-485 Communication	(5)(6)

Number of Terminals: 12 terminals (1) to (12)

Input terminals: (10) to (12)
RS-485 communications terminals: (7)(8)



Two input power supplies are available:

100 to 240 VAC or 24 VAC/VDC (no polarity).

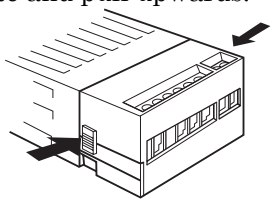
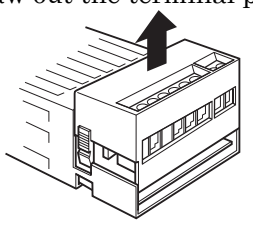
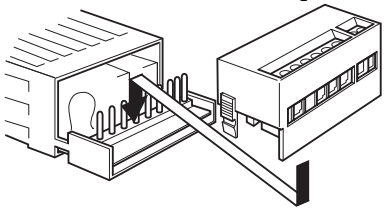
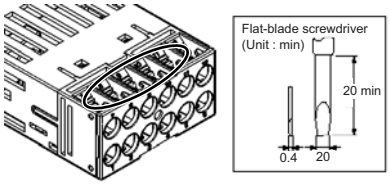
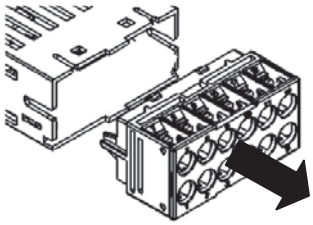
Models depend on the power supply specification.

	TO
Input Power Supply	(1)(2)
Control Output	(3)(4)
Auxiliary output	(5)(6)
Input Terminal	(10)(11)(12)
RS-485 Communication	(7)(8)

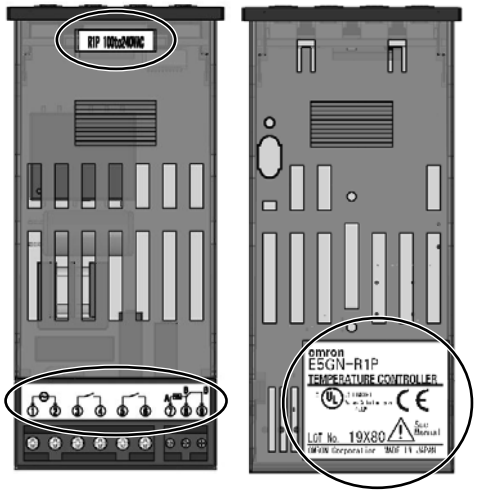
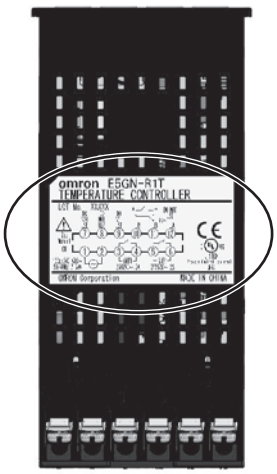
Ratings, Performance

Product discontinuation E5GN-[][][]TC series E5GN-[][][]P series	Recommendable replacement E5GN-[][][]T series
Types of Thermocouple Input Thermocouple: K,J,T,E,L,U,N,R,S,B	The following types are added. Thermocouple: W, PLII
Input Ranges E sensor: 0 to 600 °C	E sensor: -200 to 600 °C
Input Accuracy Thermocouple: (±0.5% of PV or ±1°C, whichever is greater) ±1 digit max. Platinum resistance thermometer: (±0.5% of PV or ±1°C, whichever is greater) ±1 digit max. Analog input: ±0.5%FS ±1 digit max.	Thermocouple: (±0.3% of PV or ±1°C, whichever is greater) ±1 digit Platinum resistance thermometer: (±0.2% of PV or ±0.8°C, whichever is greater) ±1 digit Analog input: ±0.2%FS ±1 digit
Affect of Signal Source Resistance Thermocouple: 0.1°C (0.2°F)/ Ω max. (100 Ω max.) Platinum resistance thermometer:0.4°C (0.8°F) / Ω max. (10 Ω max.)	Thermocouple: 0.1°C/ Ω max. (for all Spec.) Platinum resistance thermometer: 0.1°C/ Ω
Input Sampling Period 500ms	250ms
Dielectric Strength 2,000 VAC, 50 or 60 Hz for 1 min (between terminals with different charge)	2,300 VAC, 50 or 60 Hz for 1 min (between terminals with different charge)
Memory protection Non-volatile memory (number of writes: 100,000 times)	Non-volatile memory (number of writes: 1,000,000 times)
EMC Radiated Interference Electromagnetic Field Strength: EN61326 class A Noise Terminal Voltage: EN61326 class A	Radiated Interference Electromagnetic Field Strength:EN55011 Group 1, class A Noise Terminal Voltage: EN55011 Group 1, class A
Alarm output Output ratings 250VAC, 1A	Output ratings are improved. After modification: 250VAC, 2A
Communications Baud Rate 1200, 2400, 4800, 9600, 19200	1200, 2400, 4800, 9600, 19200, 38400, 57600bps

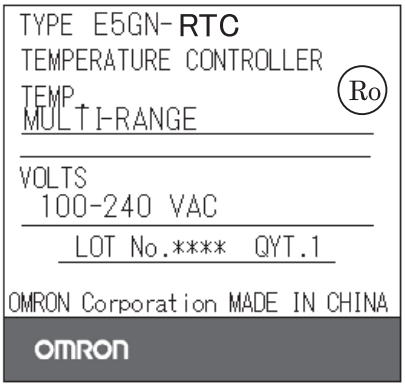
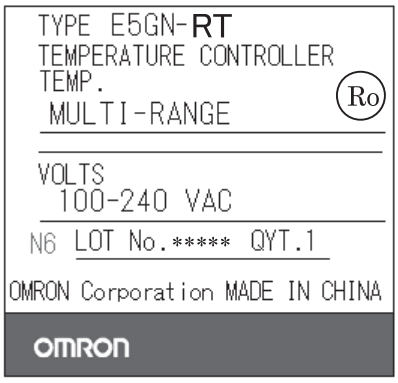
Ratings, Performance

Product discontinuation E5GN-[][][]TC series E5GN-[][][]P series	Recommendable replacement E5GN-[][][]T series
Indication method  **Segment of Display** PV: 7 segment SV: 7 segment **Height of the Character** PV: 7 mm SV: 3.5 mm	 **Segment of Display** PV: 11 segment SV: 11 segment **Height of the Character** PV: 7.5 mm SV: 3.6 mm **Marks that are indicated are modified.** No indicator for single-lighting of AL Single-lighting is added. Key mark is added.
Safety Standard UL61010C-1	UL61010-1
Water or Dust Proofing Standard Conforms to NEMA4X Equivalent to IP66	IP66
Removing and Attaching the Terminal Block (1) Press down hard on the fasteners on both sides of the terminals to unlock the terminal plate and pull upwards.  (2) Draw out the terminal plate as it is.  (3) Before you insert the terminal plate again, make sure that the pins match the positions of the holes in the terminal plate. 	How to remove and attach the terminal block is changed as follows. (1) Insert a flat-blade screwdriver into the two tool insertion holes(one on the top and one on the bottom) to release the hooks.  (2) Carefully pull it out toward you.  Note: Both models with screw terminals and models with screw-less terminals can use the same method.

Labels

Product discontinuation E5GN-[][][]TC series E5GN-[][][]P series	Recommendable replacement E5GN-[][][]T series
Front Label  **Size of the indicator frame** Wide: 36.1 mm Long: 9.8 mm	 **Design is modified.** **The following printed characters are added:** MANU, SUB1, SUB2, HA **Size of the indicator frame:** Wide: 36.8 mm Long:10.1 mm
Side Label (1) Number of Labels: 3 (2) Model Number: Refer to Model Number Legend. (3) Lot No.: Production year: Last 1 digit in the year □ □ □ □ □ □ (1)(2)(3)(4)(5)(6) (1)(2): Production day 01 to 31 (3): Production month 1 to 9, X, Y, Z X=10, Y=11, Z=12 (4): Production year: Last 1 digit in the year (5) (6): Production factory that is abbreviated.  Top View Bottom View	(1) Number of Labels: Summarized in 1 (2) Model Number: Refer to Model Number Legend. (3) Lot No.: Production year: Last 2 digits in the year □ □ □ □ □ □ □ (1)(2)(3)(4)(5)(6)(7) (1)(2): Production day 01 to 31 (3): Production month 1 to 9, X, Y, Z X=10, Y=11, Z=12 (4) (5): Production year: Last 2 digits in the year (6) (7): Production factory that is abbreviated.  Top View

Labels

Product discontinuation E5GN-[][][]TC series E5GN-[][][]P series	Recommendable replacement E5GN-[][][]T series
Label for packing case (1) Model Number: Refer to Model Number Legend. (2) Lot No.: (4 digits) Production year: Last 1 digit in the year [] [] [] [] [] [] (1)(2)(3)(4)(5)(6) (1)(2): Production day 01 to 31 (3): Production month 1 to 9, X, Y, Z X=10, Y=11, Z=12 (4): Production year: Last 1 digit in the year (5) (6): Production factory that is abbreviated. (3) Identification mark No mark on the label.  	(1) Model Number: Refer to Model Number Legend. (2) Lot No.: (5 digits) Production year: Last 2 digits in the year [] [] [] [] [] [] [] (1)(2)(3)(4)(5)(6)(7) (1)(2): Production day 01 to 31 (3): Production month 1 to 9, X, Y, Z X=10, Y=11, Z=12 (4) (5): Production year: Last 2 digits in the year (6) (7): Production factory that is abbreviated. (3) Identification mark "N6" is marked on the label. 

Model Number Legend

Product discontinuation E5GN-[][][]TC series E5GN-[][][]P series	Recommendable replacement E5GN-[][][]T series
Parameters EG5N- [] [] [] []-[] (1)(2)(3)(4)(5) (1) Control Output R: Relay Q: Voltage Output (for driving SSR) (2) Alarm Outputs Blank: None 1:One output (3) Option Blank: None 03: RS-485 communications (4) Input Type TC: Thermocouple P: Platinum Resistance Thermometer (5) CompoWay/F is supported. Blank: None FLK: CompoWay/F is supported.	EG5N- [] [] [] [] [] -[] -[] (1)(2)(3)(4)(5) (6) (7) (1) Control Output R: Relay Q: Voltage Output (for driving SSR) (2) Auxiliary Outputs Blank: None 1:One output (3) Option Blank: None 03: RS-485 communications (4) Input Type T: Universal Thermocouple/Platinum Resistance Thermometer (5) Input Power Supply Blank: 100 to 240 VAC D: 24 VAC/VDC (6) Terminal Block Blank: M3 terminal C: Screw-less terminal (7) CompoWay/F is supported. Blank: None FLK: CompoWay/F is supported.

How to Operate

Product discontinuation E5GN-[][][]TC series E5GN-[][][]P series	Recommendable replacement E5GN-[][][]T series
Parameters Parameters	Parameters are added due to additional functions. Parameters are modified as follows. SP ramp set value: Move from advanced function setting level to adjustment level. MV upper limit: Move from advanced function setting level to adjustment level. MV lower limit: Move from advanced function setting level to adjustment level. Alarm hysteresis: Move from advanced function setting level to initial setting level.
Functions Alarm output	**Functions** Auxiliary output
Default Values of Parameters [E5GN-[][][]P] Input Type for models with platinum resistance thermometer Default value: Platinum resistance thermometer Pt100	[E5GN-[][][]T] Input Type for models with universal thermocouple /platinum resistance thermometer Default value: Thermocouple K Universal input type changes the default value of Input Type parameter from platinum resistance thermometer Pt100 to thermocouple K. Change the setting of the Input Type to match the sensor that is used.

Operation Manual

Product discontinuation E5GN-[][][]TC series E5GN-[][][]P series	Recommendable replacement E5GN-[][][]T series
Operation Manual is also updated due to the renewal products.	