New Value For Control Panels

Temperature Controllers

E5□C Series Simple Type

The Leading Temperature Controllers in the Control Panel Evolution

- Greater downsizing and higher performance in control panels and other equipment
- Greater efficiency from designing to assembly
- Innovating control panel and equipment usability

New Value For Control Panels

Control Panels: The Heart of Manufacturing Sites.

Evolution in control panels results in large evolution in production facilities.

And if control panel design, control panel manufacturing processes, and human interaction with them are innovated, control panel manufacturing becomes simpler and takes a leap forward.
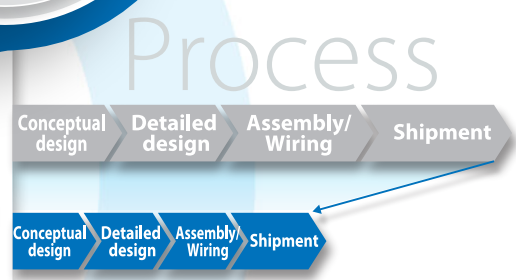
OMRON will continue to achieve a control panel evolution and process innovation through many undertakings starting with the shared Value Design for Panel *1 concept for the specifications of products used in control panels.

Value Design for Panel

*1 Value Design for Panel

Our shared Value Design for Panel (herein after referred to as "Value Design") concept for the specifications of products used in control panels will create new value to our customer's control panels.

Combining multiple products that share the Value Design concept will further increase the value provided to control panels.

Innovation for panel building
Process

Further Evolution for
Panels

New Value For Control Panels

Simple & Easy for panel business
People

Process

| Conceptual design | Detailed design | Assembly/ Wiring | Shipment |

| Conceptual design | Detailed design | Assembly/ Wiring | Shipment |

Panels

People

The Leading Temperature Controllers in the Control Panel Evolution

E5CC-B-800
Push-In Plus
terminal block
48 × 48 mm

E5EC-B-800
Push-In Plus
terminal block
48 × 96 mm

NEW
E5DC-B-800
Push-In Plus
terminal block
width: 22.5 mm

E5CC-U-800
Plug-in models
48 × 48 mm

E5DC-800
DIN
Track-mounting Type
width: 22.5 mm

NEW
E5DC-B-800
Push-In Plus
terminal block
width: 22.5 mm

E5CC-800
Screw terminal
block
48 × 48 mm

E5EC-800
Screw terminal
block
48 × 96 mm

E5AC-800
Screw terminal block
96 × 96 mm

Greater downsizing and higher performance in control panels and other equipment

- A wide range of lineup to handle various control panel/equipment sizes.
- Advanced control performance to help increase equipment speed and yield.

Greater efficiency from designing to assembly and operations

- Saves your work in each process from
  designing to operation of control panels and other equipment.

Innovating control panel and equipment usability

- Wide viewing angle and high-contrast LCD for high visibility.
- Reduces the workload of entering set values on-site.

Certified for main safety standards.

UL CERTIFIED *   CE

*CSA conformance evaluation by UL.

A wide range of lineup to handle various

Save Space with a Compact Body That's Only 60 mm in Depth

A short body that's 77% of our previous model has been achieved.
This makes the Controller applicable in tight spaces with limited depth.

E5CC-800
E5EC-800
E5AC-800

60 mm

*In comparison with the E5CN.

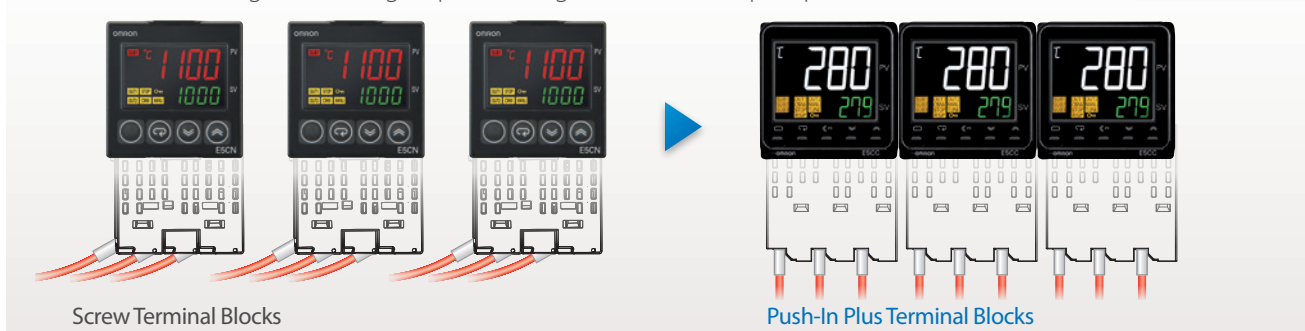## Equal Operability as On-panel Controllers Plus Space-saving Layouts inside Control Panels

The unified operability of the E5□C-800 Series in a DIN Track-mounting Controller that is 22.5 mm wide.
You can achieve space-saving layouts in control panels.

E5DC-B-800
E5DC-800

Push-In Plus technology Enables Horizontal Group Mounting Easily

With Push-In Plus technology, wiring is performed from the back,
which facilitates using horizontal group mounting, to achieve compact panel surfaces.

E5CC-B-800
E5EC-B-800

Screw Terminal Blocks

Push-In Plus Terminal Blocks

control panel/equipment sizes

Space-saving 22.5 mm Wide Design Saves Reduce wiring work

The lineup has been expanded to include the 22.5 mm wide in-panel E5DC model with Push-In Plus Terminal Block.
This model is not only space-saving for easy installation in control panel but also reduces wiring work.

NEW
E5DC-B-800

Reduce Crossover Wiring with Horizontal Connection Structure

Simply connect the device to enable power line and communication cable, reducing the amount of wiring work required. (Maximum connectable units: 16 devices)

NEW
E5DC-B-800

Removable Terminal Block for Easy Mounting and Replacement

The removable terminal block means wiring does not need to be removed during maintenance, making mounting and replacement simple.

E5DC-B-800
E5DC-800

Removing from the Terminal Block The image is for illustration purpose only.

*Hooks must be pressed to remove from the terminal block.

Greater efficiency from designing to assembly

Design

Programless Communications Eliminates the Time to Create Communications Program with the PLC.

step1 Wire RS-485 communications.

step2 Set the communications addresses and the communications types in the Temperature Controllers.

step3 Set the communications settings in the PLC to agree with those in the Temperature Controllers.

Communications start.

- In addition to communications with PLCs, you can share target temperatures and copy parameter settings with other E5□C series Controllers.

Assembly and Wiring

Push-In Plus technology for Easy Wiring

Just Insert Wires: No Tools Required
Now you can use Push-In Plus technology to reduce the time and work involved in wiring.

E5CC-B-800
E5EC-B-800
E5DC-B-800

Greatly Reduce Wiring Work with Push-In Plus technology

Approx. 60% reduction!

Conventional screw terminal blocks   OMRON Push-In Plus terminal block

*Information for Push-In Plus and screw terminal blocks is based on OMRON's actual measurement value data.

Easy to Insert

OMRON's Push-In Plus terminal blocks are as easy as inserting to an earphone jack. They help reduce the work load and improve wiring quality.

Held Firmly in Place

Even though less insertion force is required, the wires are held firmly in place. The advanced mechanism design technology and manufacturing technology produced a spring that ensures better workability and reliability.

No Retightening Required

Tightening screws is necessary for screw terminal blocks, but with Push-In Plus terminal blocks, there is no need for retightening.

Temperature Sensors

Temperature Sensors with Ferrules are also available to help reduce the time and work involved in wiring.

IEC standard (cable diameter)	Push-In Plus terminal block	Screw terminal block
20 N min. (AWG20,0.5 mm^2)	**125 N**	112 N

*Information for Push-In Plus and screw terminal blocks is based on OMRON's actual measurement value data.

Innovating control panel and equipment usability

Easy Display Confirmation On-site.

Big white characters on a black background achieve superior visibility. Operator movement distances are minimized to help increase work efficiency.

Life Size

E5CC

High-contrast displays enable easier confirmation regardless of ambient lighting conditions.

A wide viewing angle was achieved with the LCDs to enable easy confirmation of the PV.

Reduces the workload of entering set values on-site.

Functions are provided to reduce work in operating and changing settings for the Controllers.

Just press the shift key (<<PF) to move the digit. This simplifies numeric entry at worksite.

Just press the shift key to move the digit.

Product Lineup

Terminal type \ Size	48 × 48 mm	48 × 96mm	96 × 96mm	DIN 22.5-mm width
Push-In Plus terminal block	E5CC-B-800 Panel	E5EC-B-800 Panel		NEW E5DC-B-800 Panel
Screw terminal block	E5CC-800	E5EC-800	E5AC-800	E5DC-800
Plug-in models	E5CC-U-800			

*Screwless clamp terminal blocks also available.
Refer to the E5□C-800 Series Datasheet (Cat. No. H179) for details.

Before you place an order, please read and understand "Agreement for Using the Product" available on Omron's latest "Best control devices Omron", "General Brochure" or Omron's website.

Authorized Distributor:

Cat. No. H221-E1-03   0319(0316)