OMRON

Innovation in Control Panel Building



New Value For Control Panels

Control Panels: The Heart of Manufacturing Sites

Recent evolution of control panel design and manufacturing is benefiting panel builders as well as end users and machine builders, resulting in evolution within production facilities that reduces total cost of ownership. With the goal of making panel manufacturing simpler and more efficient, we have innovated new techniques and technologies for panel design, panel manufacturing processes, and wiring. Our Value Design for Panel concept guides the development of control panel products that reduce time and labor costs, power consumption, and control cabinet size.



Value Design for Panel Concept Advantages



Specifications for Value Design products focus on uniform mounting height and depth, reduced overall volume and side-by-side mounting to make room for more components. Wiring capabilities without tools using front access Push-In Plus wiring terminals decreases installation time.

A panel built around Value Design Concept products provides competitive advantages for panel builders, machine builders and end users. Combining multiple products that share the Value Design concept increases the value to all stakeholders involved with control panel design and use.



New Value For Control Panels

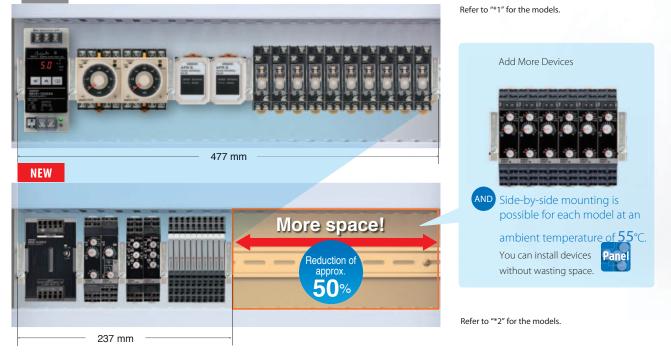
Further Evolution for Panels

Our compact and highly reliable Value Design products

More-advanced Control Panels By adding devices in the newly available space, you can mount more devices in the same sized control panel to increase control panel functionality.

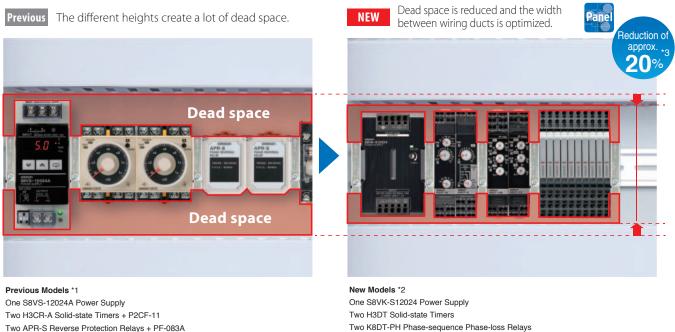
Previous

Panels



 Downsizing Control Panels
 We'll help you downsize control panels by reducing the width between

 wiring ducts and dead space.
 * This is in comparison with previous OMRON products.



Ten G2RV-SR Slim I/O Relays

Five PFP-M End Plates

Two H3CR-A Solid-state Timers + P2CF-11 Two APR-S Reverse Protection Relays + PF-083A Ten G2R-1-S General-purpose Relays + P2RF-05 Five PFP-M End Plates

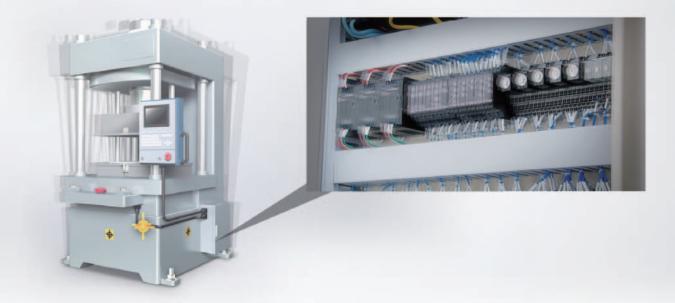
*3: A space of 10 mm is allowed above and below the products.

Panel

for control panels take control panels to a new level.

Control Panels That Resist Vibration

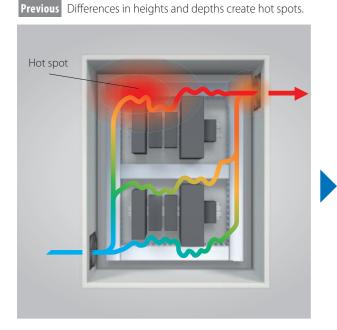
You can use Push-In Plus Terminal Blocks (refer to page 8.) to create robust control panels that withstand vibration during shipping and operation.



Increase the Reliability of Mounted Devices

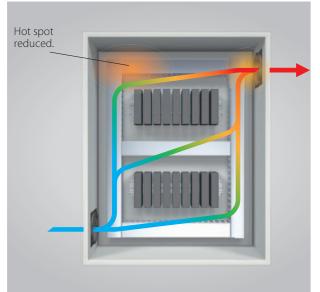
Uneven heat dissipation is reduced because air circulation is improved.

Reducing the temperature inside the panel increases product reliability, decreases the failure rate, and lengthens life expectancies.



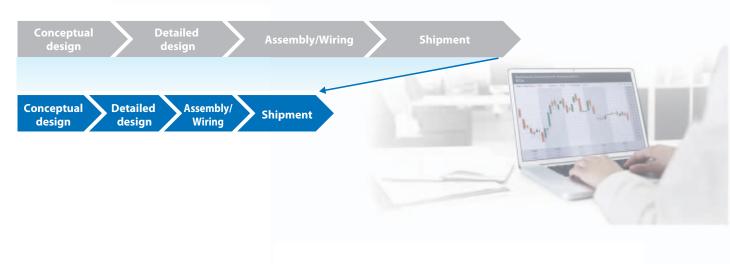








Meet Customer Needs by Increasing Process Speed



Faster Designing When Reusing Designs

The unified specifications let you easily customize panels for each customer.



The wide range of products with unified specifications gives you a wider selection.

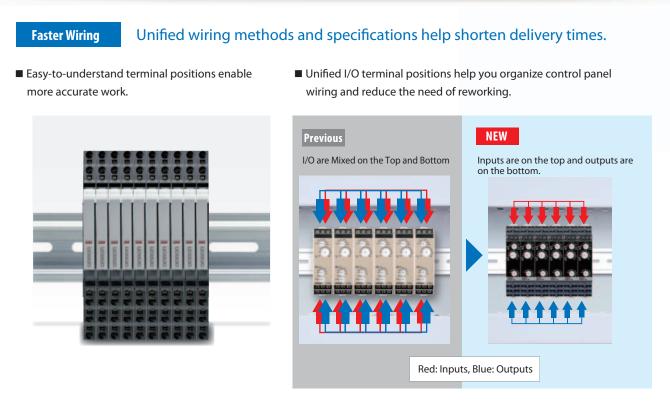
Value Design Products

Power Supplies, Timers, Measuring and Monitoring Relays, Sockets (for Relays, Timers, Liquid Leakage Sensor Amplifiers), SSR, DIN Track Terminal Blocks, Temperature Controllers, Power Monitors, UPSs, EtherCAT Slave Terminals

Panel



Work



■ Greatly reduce wiring work with Push-In Plus Terminal Blocks.



Conventional screw terminal block Push-In Plus Terminal Block Information for Push-In Plus and Screw Terminal Blocks is based on OMRON's actual measurement data.

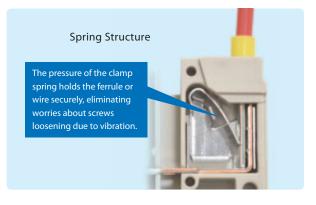
Faster Shipping to Destinations Abroad

Value Design products are certified for CE, UL, and CSA.





■ Retightening is not required for Push-In Plus Terminal Blocks.



Faster Response to Problems during Assembly and after Shipping

Express Delivery Services to 35 Countries Worldwide



New Value For Control Panels

People

Simple & Easy for Panel Business People

Reliable and Comfortable Manufacturing for All

Easy Wiring

Push-In Plus Terminal Blocks let you finish the wirings just by inserting wires.

What Are Push-In Plus Terminal Blocks?

Push-In Plus Terminal Blocks were independently developed by OMRON for easy wire insertion and firm wire holding ability. It's as easy as inserting to an earphone jack: No tools are required. They help reduce the time and work involved in wiring.

Easy to Insert

OMRON's Push-In Plus terminal blocks are as easy as inserting to an earphone jack. This reduces the load on worker's fingers.



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 produces a spring that ensures better workability and reliability.



* Information for Push-In Plus terminal blocks and Screw terminal blocks is based on OMRON's actual measurement value data for the XW2R.

Work with Both Hands

Optimized shape to hold the screwdriver was created by the resin parts and the spring. Work goes smoothly when connecting stranded wires directly to the terminal because it's easier to aim at the desired terminal.



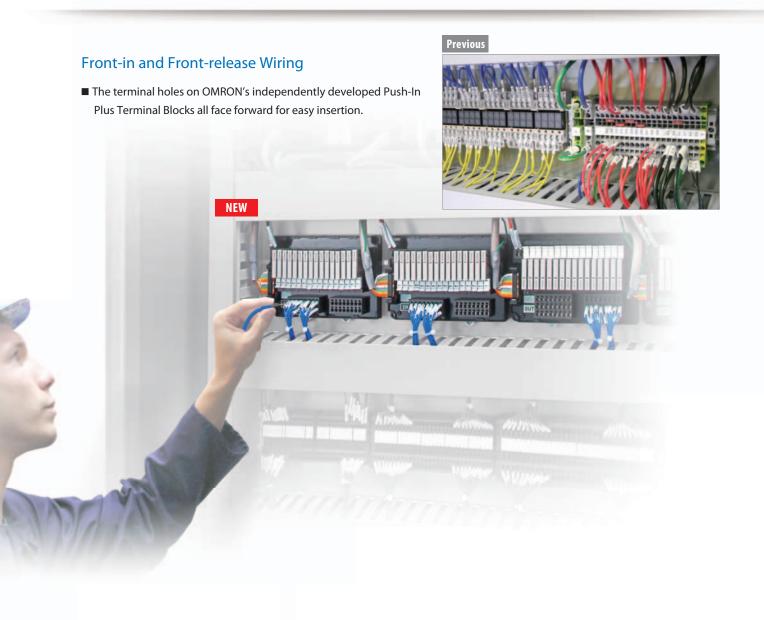
Wiring Possible with Stranded Wires

You can insert wires with ferrules or you can also insert stranded wires.



* Patents relating to Push-In Plus Terminal Blocks: Patent-pending

People That Deal with Control Panels



Examples of the Benefits of Value Design

Comments from Customers That Are Hoping to Add New

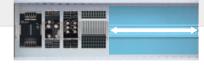


Downsizing Control Panels

Saving Space

•Downsizing is our highest priority. The usage of Push-In Terminal Blocks will be an effective measure to downsize control panels (company A).

•We need to downsize control panels, so side-by-side mounting at an ambient temperature of 55°C is appealing (company B).



•Our users often request to add devices. We often directly mount devices in available space, so saving space in control panels is great (company C).

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Reducing Dead Space/ Making More-advanced Control Panels

•The number of devices used in control panels is increasing due to more advanced and more composite machine functionality. Devices with the same size will reduce work required for layout design inside control panels.





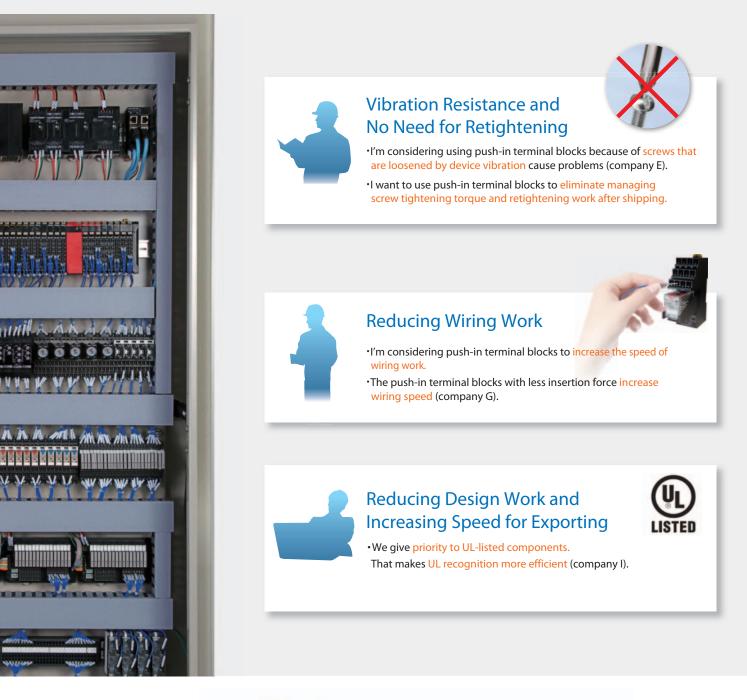
Main Features of Value Design

•Unified slim size.

• Side-by-side mounting at an ambient temperature of 55°C. (Applicable only within the same series.) Front-in and front-release wiring.Certification for CE, UL, and CSA.

• Push-In Plus terminal blocks are used. (Expect for some products)

Value to Their Control Panels





New Value For Control Panels

Our Value Design Products Increase the Value of Your Control

New Products



NEW Switch Mode Power Supplies NEW Solid-state Timers



NEW Measuring and Monitoring Relays



NEW Power Monitors



NEW Sockets for MY Relays, H3Y--B and H3YN-B PYF-----PU



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Y42I-E-01 05/16 Note: Specifications are subject to change. © 2016 Omron Electronics LLC