Omron's perfect partnership

CONTROLLERS & SSR’S

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From temperature sensing
to heat load switching
Omron is the world's largest supplier of temperature controllers. This product range is unrivalled, and includes everything from the simplest controllers to advanced communication units that help you master any control application. What sets these temperature controllers apart from competition is that they include Omron's legendary control performance and reliability, superb quality, and compact dimensions as standard. Omron also offers a comprehensive range of solid-state relays (SSRs) that provides the perfect load switching for temperature control applications.

**Omron’s temperature controllers and solid-state relays – a powerful combination!**

These SSRs are a fast reliable and cost-effective partner to our temperature controllers. Combinations of temperature controller and SSR are available to handle almost any application, including heater bands for plastics extrusion processes, packaging machinery and heater elements in general manufacturing. Only Omron could bring you such a product choice, and all from one supplier!
The world’s No. 1 manufacturer of temperature controllers...

Omron’s temperature controllers range from units that are suitable for simple temperature applications, through to advanced controllers complete with programmable profiles and communications.

Features include:
• Wide range of heating and cooling control
• Variety of selectable input ranges
• Auto-tuning and self-tuning options for optimum control
• Parameter linked colour change display
• Conformance to all relevant standards (including CE, UL, IEC & CSA)

... brings you the added benefits of solid-state relays!!

Temperature controllers often need SSRs for the control of heating processes, and that’s where Omron’s SSRs come in! Omron has an SSR for almost every application.

Features include:
• Replaceable, easy-to-install power device cartridges assures ease of maintenance
• Zero cross AC load switching
• Built-in heat sinks
• For use in single- and three-phase applications
• SSRs compatible with G2RS, MYS, LY & MK Electro-Mechanical relays
• Space saving
• Operational Indicator
• Built-in surge suppression
• Cycle control, AC input, voltage, short-circuit and failure detection modules available
• Conformance to all relevant standards (including CE, UL, IEC & CSA)
**Universal + programmer type**
ESCK/ESER/ESAK
- From 1/16 to 1/4 DIN size
- High accuracy
- Modular, one stock type
- Advanced fuzzy tuning
- Programmable profile type available
- IP66 (NEMA 4X)

**High-performance type**
ESER/ESAR
- High accuracy (0.01°C Pt100)
- Fast sample and control (50ms)
- Up to 4 loops in one box
- Easy setting

**Modular in-panel type**
ESZ
- 2 loops in one 22.5 mm wide module
- Module + socket (replace without rewire)
- Communication standard (FIELDBUS option)
- Voltage (SSR), transistor & current output
- Heater burnout or retransmission

**Panel mounting type**
G3NE
- 5 to 20A
- Compact size
- Quick connect terminals
- Built-in varistor absorbs external surges

**Panel mounting type**
G3PA/G3PB/G3NH
- 10 to 150A
- Replaceable power cartridges
- Built-in heat sinks
- Single and three-phase types

**Socket mounting type**
G3B/G3F/G3R/G3H
- 2 to 5A
- Compatible with G2RS, MYS, LY & MK Electro-Mechanical relays
- DIN rail mounting via sockets
- Space saving
The perfect solution for:

- packaging
- industrial ovens
- plastic moulding
- food and beverage processing
- fryers and bakery ovens
- semiconductor forming machines

PCB soldering
Packaging form and seal

Plastic parts production
Bread baking ovens
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