

Universal Relay Module

RELAY-URM Series



- ✓ 4- and 8-Relay Models Available
- ✓ Low-Level Input Signals—5 to 24 Vdc
- ✓ Logic Level Inputs (TTL, CMOS, etc.)
- ✓ Direct- or Reverse-Acting Input
- ✓ Contact Closure Input
- ✓ Operate Relays with Remote Switch
- ✓ Compatible with Most PLCs and Controllers
- ✓ Normally Open/ Normally Closed Contacts
- ✓ Relay Status Indication on Front Panel
- ✓ Euro-Style Pluggable Connectors
- ✓ Panel, DIN Rail, or Wall Mountable
- ✓ Built-In Power Supply (25 W)
- ✓ Auxiliary Power Supply Output (20 W)
- ✓ AC and DC Supply Status Indication
- ✓ All-Aluminum Enclosure



RELAY-URM-800 shown close to actual size.

The versatile RELAY-URM Series relay module can switch up to eight 15 A loads using low-level input signals from PLCs, process controllers, and indicators. Its flexible inputs will accept a wide variety of control signals. Selectable input allows activation of output relays on a direct-acting or reverse-acting signal. Similarly, input signals can range from 5 to 24 Vdc. Conditioning of input allows open-collector or logic level inputs (e.g., TTL, CMOS) from PLCs or controllers to be used for switching output relays. In addition to working with control/logic level signals, the

RELAY-URM can activate output relays on contact closure. Many process-control instruments have low-power relays that provide contact closure for low-amperage switching but are not suitable for handling heavy loads. Simply connect the low-power relay contact output to the RELAY-URM unit and instantly get up to eight 15 A load switching relays.

Input and output connections are made through Euro-style pluggable connectors, conveniently located on the top and bottom of the unit. Screw-in terminals allow for quick connect/disconnect of wires.

The unit is housed in a versatile enclosure that can be mounted on a DIN rail or a wall. If desired, the same enclosure can be panel mounted, with relay and AC and DC supply status visible on the front. LEDs on the front panel turn on when a relay is energized.

Both 4- and 8-relay module units come with a built-in universal power supply that operates on 100 to 240 Vac. This supply provides power to the internal electronics and relays and puts out up to 20 W (5, 12, or 24 Vdc), available for external applications.

Specifications

Relay Specifications:

Type:

Electro-mechanical relay, SPDT

Current Rating: 15 A

Switched Voltage: Up to 250 Vac or 28 Vdc

Coil Voltage: 5 Vdc

Operating Time (Typical): 10 ms

Release Time: 5 ms

Mechanical Life Expectancy:

10 million operations

Temperature Rise:

25°C (45°F) at nominal coil voltage

Output Connections:

Type: Euro-style pluggable connectors

Terminals: Screw-type

Terminal Spacing: 5 mm (0.196")

Stripped length: 6 mm (0.236")

Current Rating: 15 A

Wire Size: 22-14 AWG

Input Connections:

Type:

Euro-style pluggable connectors

Terminals: Screw-type

Terminal Spacing:

3.51 mm (0.137")

Stripped Length: 7 mm (0.275")

Current Rating: 8 A

Wire Size: 28-16 AWG

Power Supply:

Universal Input: 100 to 240 Vac

Power: 25 W

Overvoltage Protection:

115 to 135% of output

Leakage Current:

Less than 0.5 mA

Efficiency: 75 to 78% typical

Output Termination:

Euro-style screw terminal; dual supply output available (consult Engineering)

Dimensions:

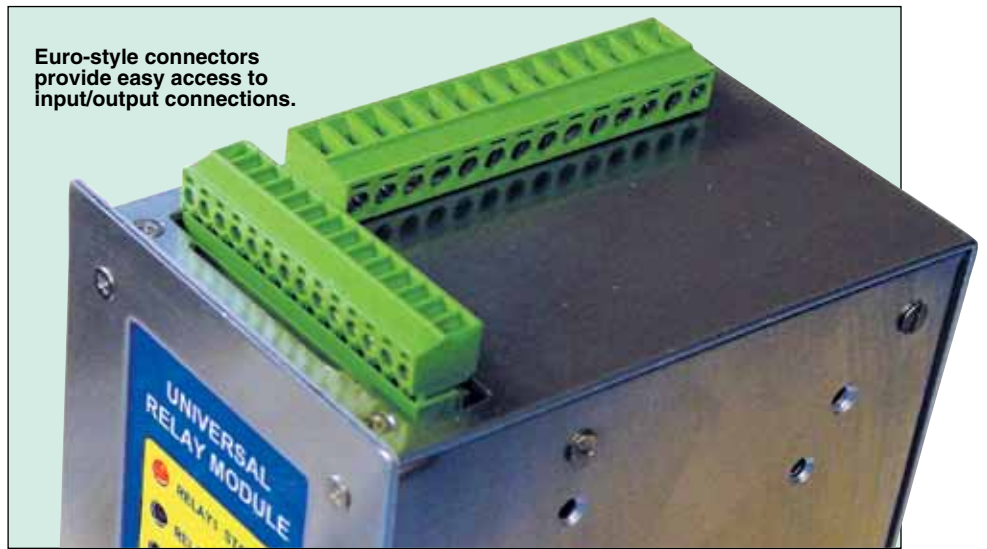
Case: 114 L x 69 W x 140 mm D (4.5 x 2.7 x 5.5")

Bezel size:

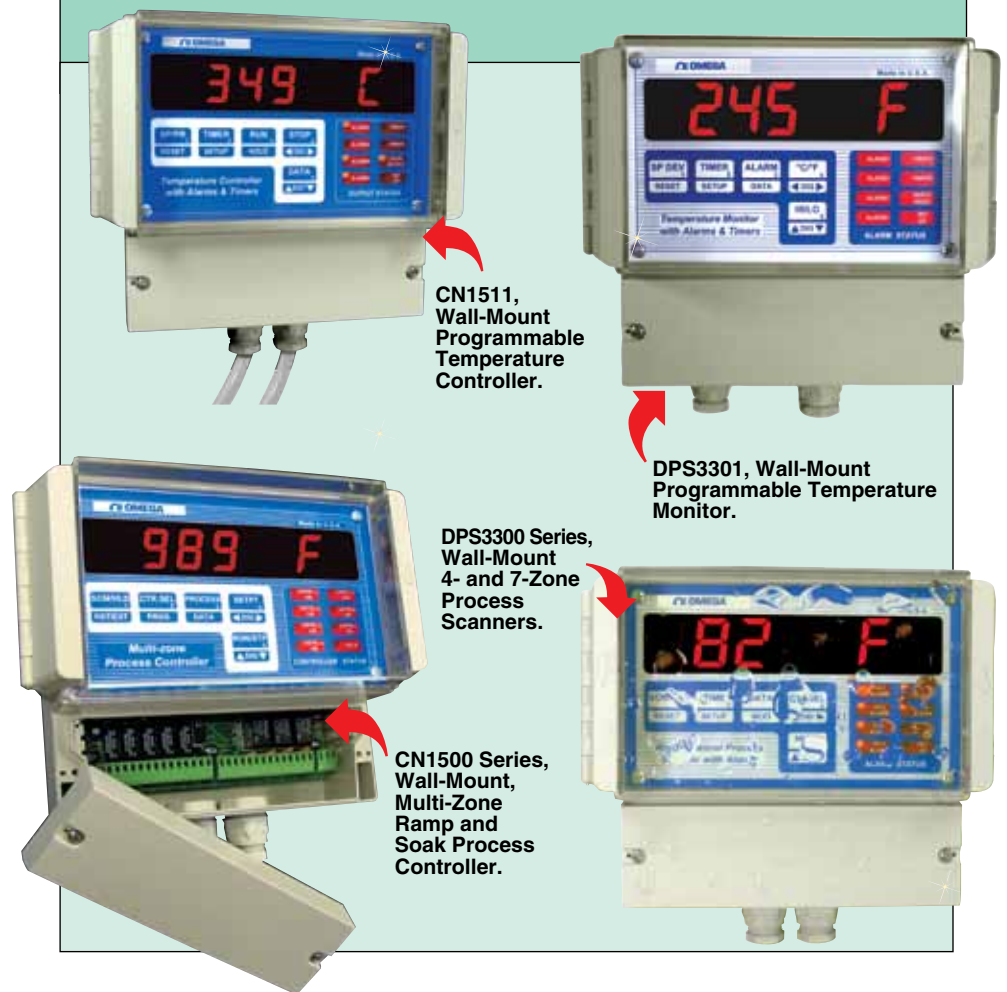
76 W x 146 H x 1.5 mm D (3.0 x 5.75 x 0.06")

Weight: 0.9 kg (2 lb)

Euro-style connectors provide easy access to input/output connections.



The RELAY-URM Series Modules are Excellent Accessories for OMEGA® Products!



CN1511, Wall-Mount Programmable Temperature Controller.

DPS3301, Wall-Mount Programmable Temperature Monitor.

DPS3300 Series, Wall-Mount 4- and 7-Zone Process Scanners.

CN1500 Series, Wall-Mount, Multi-Zone Ramp and Soak Process Controller.



OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labor and equivalent loaners.

To Order

Model No.	Description
RELAY-URM-400	Universal mechanical 4-relay module
RELAY-URM-800	Universal mechanical 8-relay module

Comes with complete operator's manual.

Ordering Example: RELAY-URM-400, universal 4-relay module.