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TECHNOLOGY GROUP

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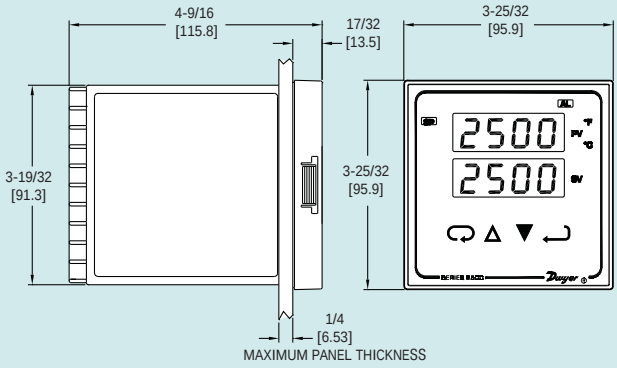
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Series 2500

Temperature/Controller

1/4 DIN Fully Programmable, Self-Tune PID





Panel cutout 3.622″ x 3.622″ (92 x 92 mm).
Depth Behind Mounting Surface: 4″ (103 mm).

Temperature

The Love Series 2500 Temperature Control provides an impressive array of features in an economical 1/4 DIN package. Features include on-off, time proportioning, proportional, PI, PD, or full PID control, programmable from the front panel, or use Self-Tune PID. Input types are selectable from a variety of thermocouple types (J, K, T, E, N or L) or DIN, NIST or Ni RTD's. Outputs include solid state relay, mechanical relay, 5 VDC (ideal for driving an external SSR) or isolated 4-20 mA proportional current. Programmable alarm can act as high or low or high/low guardband alarm.

A water and corrosion resistant front panel (NEMA 4X; IP 65), input fault timer, digital input filter, Self-Tune ramp to setpoint, four password protected security levels and °F or °C display selection are all standard. Entire electronics package is field replaceable without wiring changes thanks to removable front panel.

MODELS

MODEL NO.	ALARM	INPUT	OUTPUT*
25111	Yes	Thermocouple	SSR
25112	Yes	Thermocouple	5 VDC
25113	Yes	Thermocouple	Relay
25115	Yes	Thermocouple	4-20 mA
25125	Yes	RTD	4-20 mA

*When ordering a control to operate contactor or solenoid loads greater than 100 mA, select the SSR output instead of the Relay. If the Relay is selected, also order P/N A-600 R/C Snubber.

SPECIFICATIONS

Inputs: Thermocouple or RTD.
Input Impedance: Thermocouple = 3 megohms minimum, RTD current = 200 µA maximum.
Display: Two-4 digit, 7 segment, 0.56" high LED. Resolution: 1 degree or 0.1 degree.
Accuracy: ±0.25% of span, ±1 degree.
Supply Voltage: 100-240 VAC nominal, ±10%, 50-400 Hz, single phase; 132-240 VDC nominal, ±10%.
Power Consumption: 5 VA maximum.
Operating Temperature: 14 to 131°F (-10 to 55°C).
Memory Backup: Non-volatile memory. No batteries required.
Control Output Ratings:
SSR: 2.5A @ 240 VAC resistive at 77°F (25°C). De-rates to 1.25A @ 130°F (55°C).
Relay: SPDT, 10 A @ 240 VAC resistive.
Switched Voltage (non-isolated): 5 VDC @ 20 mA.
Proportional Isolated Current: 0-20 mA, selectable, into 600 Ohms maximum.
Control Action: Selectable for reverse (usually heating) or direct (usually cooling).
Ramp: One ramp time adjustable from 0-100 hours.
Isolation: Relay and SSR outputs; 1500 VAC. 0-20 mA output; 500 VAC. 5 VDC output is not isolated.
Weight: 13 oz (369 g).
Front Panel Rating: NEMA 4X (IP65).

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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