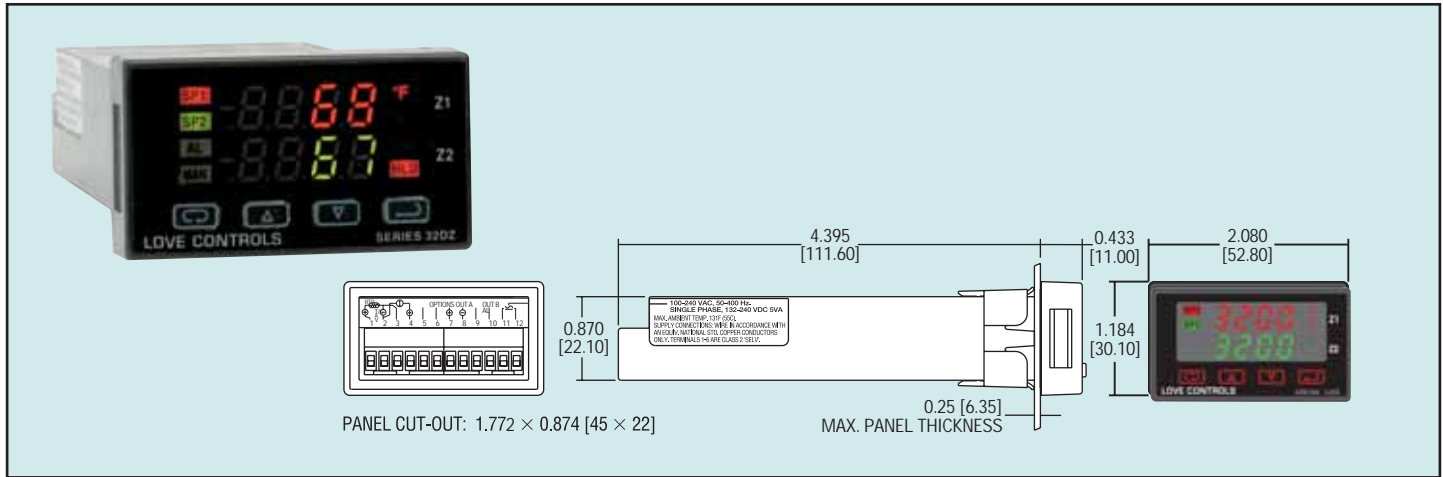




Model  
32DZ

# Temperature/Process Controller

1/32 DIN, Dual Zone Control, Fuzzy Logic, Self-Tune PID



## STANDARD FEATURES

- Large Dual Display
- Independent Self-Tune for Each Zone
- Independent Fuzzy Logic for Each Zone

- Loop Break Protection
- Peak/Valley Indication
- Illuminated Keypad
- Four Password Protected Security Levels

The Model 32DZ temperature/process controls set a new standard in 1/32 DIN power, flexibility, and value. Love Controls is proud to be the creator of the world's first dual zone control in the 1/32 DIN size. Ease of use is assured from the creators of the world's first dual display 1/32 DIN temperature /process control. The 32DZ offers 5 thermocouple type inputs. Each zone offers a single set point with mechanical relay. Standard features include independent Fuzzy Logic, Self-Tune, and Peak/Valley indication for each zone. Process protection is provided by open sensor protection, shorted sensor protection, input rate of change protection, and loop break protection. Options for the 32DZ include RS-485 Serial Communication. Designed and built in the USA, the 32DZ offers the highest levels of features, function, and quality available today.

## SPECIFICATIONS

**Inputs:** Thermocouple, Type J, K, E, L, and N.

**Display:** Two 4-digit, 7 segment, 0.259 high (6.35 mm) LEDs.

**Accuracy:**  $\pm 0.25\%$  of span,  $\pm 1$  least significant digit.

**Supply Voltage:** 100 to 240 VAC, nominal,  $+10 - 15\%$ , 50 to 400 Hz. single phase; 132 to 240 VDC, nominal,  $+10 - 20\%$ .

**Power Consumption:** 5 VA maximum.

**Operating Temperature:** 14 to 131°F (-10 to 55°C).

**Memory Backup:** Nonvolatile memory. No batteries required.

### Control Output Ratings:

**Relay:** SPST, 3A @ 240 VAC resistive; 1.5A @ 240 VAC inductive; Pilot Duty Rating: 250 VA, 2A @ 120 VAC or 1A @ 240 VAC.

**Weight:** 4 oz (114 g).

## Model 32DZ1133\* Temperature Control

\*Use ungrounded thermocouples.

### Options

**992,** RS-485 Serial Communications. Allows remote computer to read and write all control parameters

## INPUT RANGES

INPUT TYPE	RANGE °F	RANGE °C
Type J or L <sup>1</sup> Thermocouple	-100 to +1607	-73 to +871
Type K <sup>1</sup> Thermocouple	-200 to +2500	-129 to +1371
Type E <sup>1</sup> Thermocouple	-100 to 1800	-73 to +932
Type N <sup>1</sup> Thermocouple	-100 to +2372	-73 to +1300

<sup>1</sup>These Input Types can be set for 0.1° display. If temperature goes above 999.9° or less than -199.9° the display will return to whole degree resolution.

## Industrial Process and Sensor

Phone 618-465-7623 [WWW.IPSCUSTOM.COM](http://WWW.IPSCUSTOM.COM) FAX 618-465-7679

Temperature