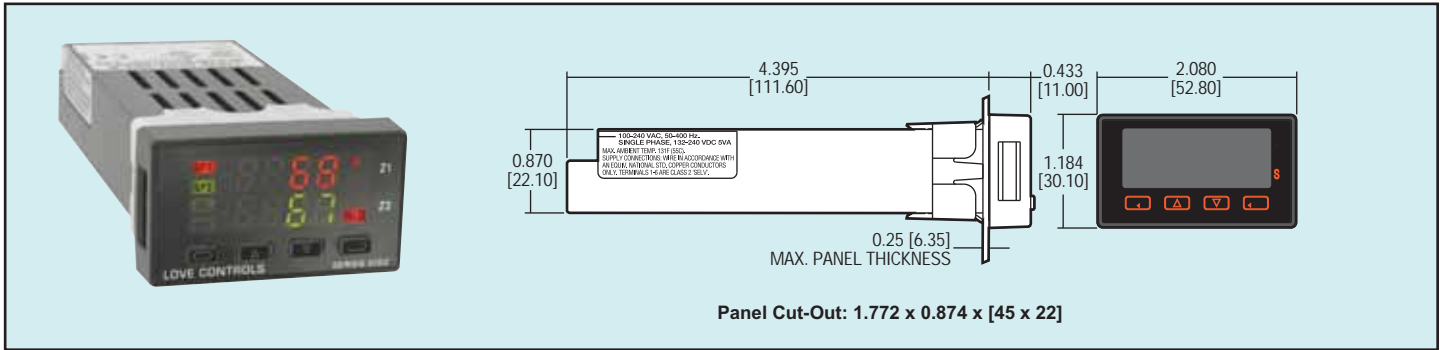




Series  
32DZ

# 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.  
 Proportional Current: 4 to 20 mA.  
 SSR: 0.75A at 240 VAC resistive at 77°F (25°C). De-rates to 1.0 A at 130°F (55°C). Minimum load of 100 mA.  
 Voltage: Switched 5 VDC.  
**Weight:** 4 oz (114 g).

| Model     | Inputs       | Output A | Output B |
|-----------|--------------|----------|----------|
| 32DZ1133* | Thermocouple | Relay    | Relay    |
| 32DZ1153* | Thermocouple | Current  | Relay    |
| 32DZ1111* | Thermocouple | SSR      | SSR      |
| 32DZ1122* | Thermocouple | 5 VDC    | 5 VDC    |
| 32DZ5533  | Current      | Relay    | Relay    |

\*Use ungrounded thermocouples.

## OPTIONS (Add to the end of the model number)

- 915, Auxillary Alarm Normally Open
- 916, Auxillary Alarm Normally Closed
- 992, RS-485 Serial Communications
- 9502, 12-24 VDC/VAC Power Input

## ACCESSORIES

- MN-1, Mini-Node™ USB/RS-485 converter
- LoveLinks III, Configuration software

Temperature