Precision Series: Temperature Controls



Features:

- Push buttons with LED for offset adjustment (+ or 20°F / 2° Increments)
- Diagnostic LED fault code (on back side of board)
- Auto Calibration
- Heavy duty relays rated at 10⁷ mechanical 10⁵ electrical
- Mouting footprint compatible with most thermostats
- · All temperature ranges created in software (others avaiable upon request)
- · Very low cost and long life precision microprocessor controller
- Proudly made in the USA
- Self-tapping screws

Applications:

Fryers Ovens Holding Cabinets Grills Griddles Rethermalizers Toasters Any heat-related product



Error Codes (LED#2)

2 Flashes Open Probe

3 Flashes Shorted Probe

SPECIFICATIONS	
Power Input:	24Vac, 120Vac, 220Vac 50/60Hz
Sensor Input:	RTD: 1K Ohm Thermistor: 30K, 91K or 100K Ohm (others available)
Dimensions:	H 2.62" x W 3.50" x D 2.09"
Mounting:	1.75" x 1.313" center to center (6-32 tap)
Connections:	.25" Fast On Male
Output:	SPST 10Amp @ 240Vac
Agency approvals:	UL-873 pending
Power consumption:	1W maximum (control only)
Temperature Control Range:	100-650°F
Temperature Offset:	+ or - 20°F (1.5°F steps via 2 push buttons and LED)
Temperature Accuracy:	3% of range
Temperature Control Type:	On - Off
User Interface:	Adjusting setpoing potentiometer
Diagnostics:	LED (back of board)
Ambient Operating Temperature:	158°F / 70°C 96% non-condensing humidity 0°C min.
Calibration Modes:	Auto / Offset via push buttons / Other

790 Maple Lane · Bensenville, Illinois 60106 630-860-6514 · www.capablecontrols.com · info@capablecontrols.com





Auto calibration mode: Set temperature set point to 350°F. Press switch #1 (outside switch) and hold for 3 seconds until both LEDs flash and then release the switch. If both LED's flash 5 times this would indicate the control is now calibrated and the information was properly stored into memory.

Manual Offset: Press and hold switch #2 (inside switch) for 3 seconds until the both LEDs flash and then release. If both LEDs flash multiple times this would indicate that the offset is set to 0°F (no offset). To add a positive offset simply press switch #1 (outside switch) once to increase the temperature +1.5°F. The LED will now turn on once then off indicating a 1 step offset. (This can go up to 10 steps +15-20°F). To do a negative offset simply hold down switch #2 (inside switch) for 3 seconds until both LEDs flash and then release. Then simple press the switch #2 as many steps as required (-1.5°F) per step. The LED #2 will turn on for as many steps as chosen. To increase or decrease steps simply add a step or



remove a step by using the opposite switch. Example: If LED #1 flashes 3 times (3 step positive offset 3-4.5°F) and you want to change it to 2 steps simply press the Switch #2 Negative Offset (inside switch) once to remove a step. LED #1 will now flash 2 times on followed by a pause and will repeat this sequence until it times out.

- After 10 seconds without any actions the control will revert back to its normal operating state.
- Please note that anytime the auto calibration procedure is performed any offset will be reset to zero.
- The manual calibration must time out for the information to be stored if the power is lost before it times out the information will not be saved.

LED#1: Positive Offset LED#2: Negative Offset / Call for heat (normal operation mode) LED#1 and #2 both ON: Auto Calibration Mode/Manual Offset Mode SW#1: Auto Calibration Mode/Positive Offset SW#2: Manual Offset Mode/Negative Offset



111 Capable Controls Inc. 790 Maple Lane [•] Bensenville, Illinois 60106 630-860-6514 www.capablecontrols.com info@capablecontrols.com