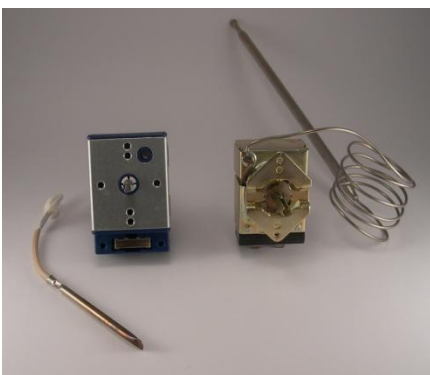


eSTAT10i Electronic Thermostat

Electronic Thermostat for Warming Cabinets, Proofers, and ovens replaces Bulb & Capillary mechanical thermostats

PRODUCT DATA



Features

- Electronic performance, mechanical feel. Replaces mechanical bulb & capillary thermostats;
- Control temp anywhere from 90⁰ to 550⁰F; multiple ranges supported with a single SKU!
- Accurate and reliable;
- Replaces different thermostats with single SKU;
- Direct AC connection (80~264VAC, 50/60Hz);
- Hefty mechanical feel with firm OFF detent;
- Factory calibrated temp will not drift, no altitude impact;
- Offset adjustment via potentiometer or software;
- Custom operation to suit OEM;
- Metal D-shaft with spring (0.25 w/std flat);
- Mounting plate with 8-32 threaded holes on 1.312 center;
- RTD probe eliminates fragile capillary tube; flanged & flangeless versions available;
- UL recognized, CE compliant (CB report)

Applications

- Holding Cabinets
- Ovens
- Banquet Carts
- Warming Drawers
- Proofing Cabinets
- Shelf warmers

General

Elan's eSTAT10i thermostat provides accurate electronic performance while retaining a mechanical look and feel. OEM's can upgrade the performance of their equipment, and reduce field service calls common to bulb and capillary thermostats, without changing the product look.

The eSTAT10i fits the footprint of common mechanical thermostats, including a standard 0.25 D-shaft and 8-32 mounting holes. The integral switching power supply accommodates 80~260VAC, 50/60Hz with ultra low current draw when OFF. And it is CE recognized for use in product sold internationally.

The eSTAT10i can store up to 8 different operating programs in a single control. Simply attach a different header block to the front of the control to accommodate a wide range of end products including operating characteristics unique to each as defined by the OEM. The eSTAT10i helps OEM's standardize their product offering, reduce and eliminate multiple SKU's in inventory with a single flexible SKU and reduce time to market for new product. The eSTAT10i also eliminates a long calibration process during manufacturing common to mechanical thermostats.

Contact Elan Industries at 630-679-2000 or www.elanindustries.com.

SPECIFICATIONS

Temperature Control

Temp Range: From 90°F to 550°F. Customer defines ranges desired, all are supplied on 1 SKU
 Temp Dead band: Definable. +/-1°F or +/-5°F typical
 Hardware Temp Offset: +/-20°F (see figure)
 Software Temp Offset: Per customer table if defined
 Initial Preheat Overshoot: Definable. 25°F typical. To heat soak cabinet for fast Preheat. Can be disabled.
 Detent Location: at OFF (Top Dead Center)
 Positive OFF (@ detent, L1 is switched off)

Input Power

80~264VAC; 50/60Hz. (integrated switching PS).

Temperature Probe

1 KΩ RTD (Avail from Elan. Not included)

Output Relay

(3) relays. Control UL approved for 3A max combined load @ 99°C. Relay 1 supplies L1 to Relay 2 & 3 for redundancy.

Temp Input shaft

¼" diameter, see figure below. 'OFF' @ TDC.

Mounting/Installation

Supplied galvanized mounting plate includes (6) threaded holes for 8-32 screws. See figure.

Connections

Power: L1(BLK); L2(WHT). Mating JST VHR3N.
 Probe: 2 pos header. Mating JST VHR3N.
 Relay: 5 pos Header. Mating JST VHR 5N
 LED Out: 2pos header. Mating JST XAP-02V-1

Model Select

3 pin model select supports up to (8) different models (replacing 8 different B&C tstats), each with different operating characteristics (range, dead band, dial angles, preheat enable/disable, relay operation, etc.)

Ambient Temperature

OPERATING AMBIENT: 32°F to 210°F (0° to 99°C)
 SHIPPING/STORAGE: -40°F to 210°F (-40° to 99°C)

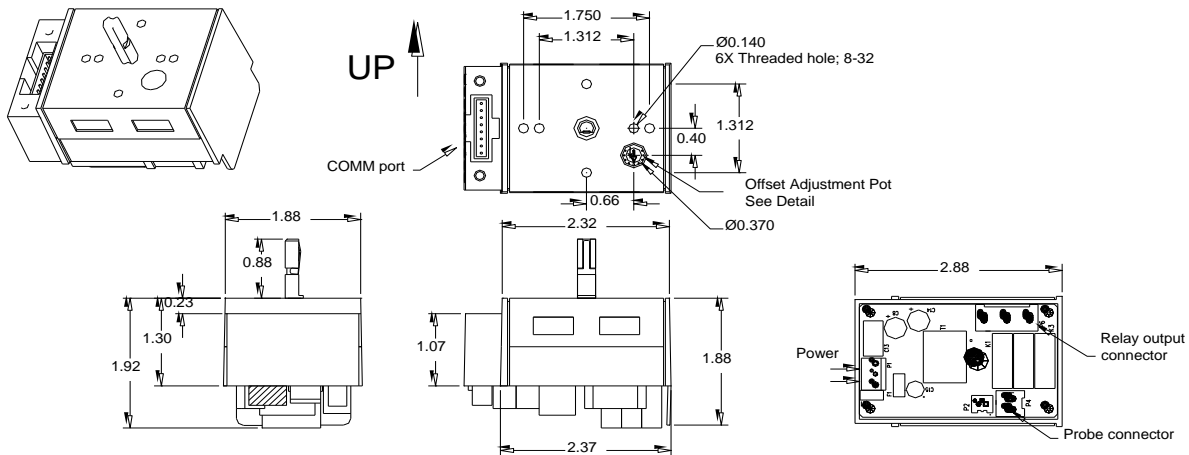
Atmosphere

Non-condensing, non-corrosive, non-explosive.
 Board is conformal coated.

Agency

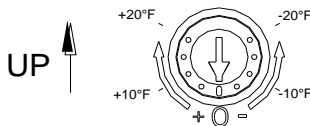
UL File E252171. CB report on file.

DIMENSIONS; WIRING; DIAL LAYOUT



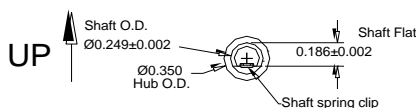
Offset Adjustment

No Scale
 CW to increase temp
 CCW to decrease temp



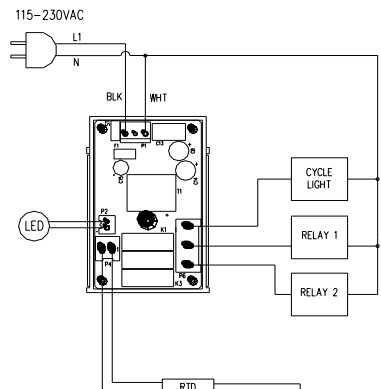
Shaft & Hub Detail

No Scale
 Shown in 'OFF' Orientation



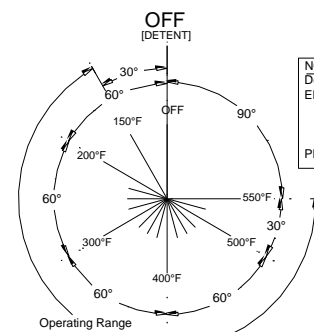
Wiring

NOTE: RELAY ON/OFF & CYCLING CAN BE CUSTOMIZED TO SUIT OEM



DEFAULT Dial Layout

KNOB IS NOT PUSH-TO-TURN



NOTE regarding DIAL
 Default DIAL shown.
 Elan can customize DIAL as follows:
 - ROTATION (CW or CCW)]
 - MIN (temp & angular location)
 - MAX (temp & angular location)
 Please advise desired settings