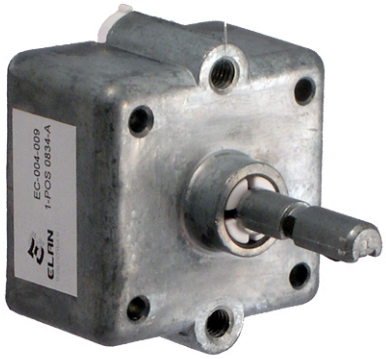
eSTAT30iD Electronic thermostat with display and timer

Electronic Thermostat for Cook & Hold cabinets; warming cabinets. Replaces mechanical thermostats, thermometer & timer.

PRODUCT DATA



Features

- Electronic performance, mechanical feel.
- Replaces mechanical thermostats, thermometers and timers.
- Control temp from 90^0 to 550^0F; multiple ranges supported with a single SKU!
- Accurate and reliable;
- Stores dozens of operating models in single SKU
- Direct AC connection, 110/208/240V, 50/60 Hz
- Attach a 2nd knob to replace Cook **AND** Hold mechanical thermostats.
- Integral electronic timer for countdown, elapsed time, or Cook-to-Hold transition.
- Integrated time/temp display
- (2) relay outputs, configurable
- RTD temp probe input
- UL recognized, CE compliant (CB report)
- Standard ¼" diameter D-shaft.

Applications

- Cook & Hold Ovens
- Rethermalization Ovens
- Warming ovens
- Banquet Carts
- Deli Cabinets
- Proofing Cabinets

General

The eSTAT30iD is ideal for commercial Cook & Hold cabinets, banquet carts, proofing cabinets, etc. Typical equipment uses separate mechanical thermostats (2 for Cook & Hold), thermometers and timers. The eSTAT30iD can replace all 4 components with an accurate electronic device that retains a 'mechanical' look and feel. And it is CE recognized for use in product sold internationally.

The eSTAT30iD stores dozens of operating models (tailored for the OEM) accessed via DIP-switch. This aids OEM in standardizing product offering, replacing multiple inventory items with a single SKU, and reducing time to market for new products. The eSTAT30iD also eliminates a long calibration process during manufacturing common to mechanical thermostats.

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

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SPECIFICATIONS

Temperature Control
Temp Range: From 90^{0}F to 550^{0}F. Customer defines ranges desired, all are supplied on 1 SKU. COOK and HOLD can be different ranges.
Temp Dead band: Definable. +/-1^0 to 5^{0}F typical
Hardware Temp Offset: +/-20^{0}F
^{0}F or ^{0}C, selectable from front of control
Software Temp Offset: Per customer table if defined
Initial Preheat Overshoot: Definable. 25^{0}F typical. To heat soak cabinet for fast Preheat. Can be disabled
Detent Location: at OFF (Top Dead Center)

Input Power
110/208/240VAC, 50/60Hz

Ambient Temperature
OPERATING AMBIENT: 32^{0}F to 185^{0}F (0^0 to 85^{0}C)
SHIPPING/STORAGE: -40^{0}F to 185^{0}F (-40^0 to 85^{0}C)

Temperature Probe
1 KΩ RTD (Avail from Elan. Not included)

Output Relay
(2) relays (rated to 17A @ 85^{0}C per UL testing). Configured to operate independent or connected.

Temp Input shaft #1 (on control)
¼" diameter, see figure below. 'OFF' @ TDC.

Temp Input shaft #2 (External)
External Elan Selector (see below) or other 10KΩ potentiometer. Typically for 2nd temp setting (for example, HOLD in Cook & Hold operation)

LED Indicators
(3) green. Configured to suit OEM (cycle, mode, etc.)

Connections
AC: ¼" Fast-on spade terminals
External Beeper: 2pos connector
RTD: 2pos connector
External Selector: 3pos connector

Display
Green, 4-digit, 7 segment, 0.60" digit height. Display configured per OEM. Displays TIME, TEMP (Actual and/or Setpoint). Display priority tailored to suit OEM.

Beeper
External beeper by others. 12VDC. 2 pin connector.

Model Select
8pos DIP configured to suit OEM. Can support up to 256 models each with defined operating characteristics (range, dead band, dial, etc.)

Atmosphere
Non-condensing, non-corrosive, non-explosive. Board is not conformal coated.

Agency
UL File E252171. CB report on file.

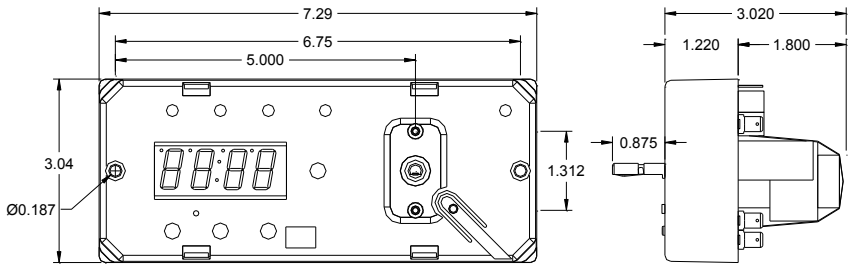
Mounting/Installation
To customer panel with 2-#6 screws (i.e. welded studs, PEM studs, etc.)

Keys
(5) tactile keys, enabled/disabled by model to suit OEM. Typical is Temp Recall (right of display), Timer (3 keys below display), Field Offset Cal (under knob).

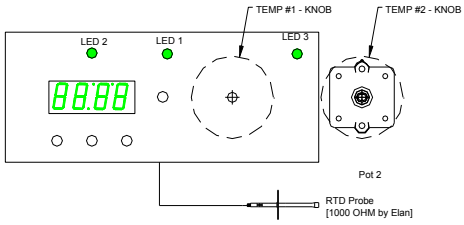
Custom Performance
To suit OEM.

DIMENSIONS

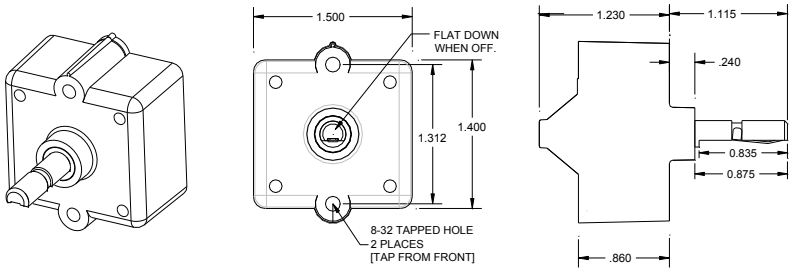
eSTAT30iD Electronic Thermostat



eSTAT30iD with external selector for Cook & Hold



External Selector (for Cook & Hold)



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