

eSTAT30iD Electronic thermostat with display and timer

Electronic Thermostat for Cook & Hold cabinets; Warmers; Proofers; Retherms. Replaces mechanical thermostats, thermometer & timer.

PRODUCT DATA



Features

- Electronic performance, mechanical feel.
- Replaces mechanical thermostats, thermometers and timers.
- Control temp from 90° to 550°F; 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 1/4" 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.

SPECIFICATIONS

Temperature Control

Temp Range: From 90°F to 550°F. Customer defines ranges desired, all are supplied on 1 SKU.
 COOK and HOLD can be different ranges.
 Temp Dead band: Definable. +/-1° to 5°F typical
 Hardware Temp Offset: +/-20°F
 °F or °C, selectable from front of control
 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)

Input Power

110/208/240VAC, 50/60Hz

Ambient Temperature

OPERATING AMBIENT: 32°F to 185°F (0° to 85°C)
 SHIPPING/STORAGE: -40°F to 185°F (-40° to 85°C)

Temperature Probe

1 KΩ RTD (Avail from Elan. Not included)

Output Relay

(2) relays (rated to 17A @ 85°C per UL testing).
 Configured to operate independent or connected.

Temp Input shaft #1 (on control)

1/4" 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: 1/4" 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

