

DYNISCO MODEL 1440

Microprocessor-Based Temperature Controller

Description

The 1440 is a powerful heat/cool temperature controller designed to meet the demands of sophisticated temperature control while maintaining user-friendly operation. Combining traditional control methodology with modern artificial intelligence concepts, the 1440 continually adjusts its control strategy to provide precise temperature control. Field configurable for relay or SSR output, thermocouple and °F/°C scaling, and heater current measurement capability combine to make the 1440 an extremely versatile temperature controller.

Features

- SMART function for continuous self-tuning
- Heat/cool and alarm functions
- Relay and SSR drive outputs
- Heater current detection capability
- Soft start for initial warmup
- IP65/NEMA 4 rated front panel

Benefits

- Set and forget
- Tailor outputs to the process
- Match type of output with severity of the process
- Predict heater failure
- Condition heaters
- Use in washdown or hostile environments



Specifications

Performance Characteristics

Dimensions: 1/8 DIN

Rear connections: Screw terminals

Power supply: 100 to 240 Vac, 50/60 Hz (switching)

Indication: Dual LED display; 10 mm high green upper and orange lower display

Sample rate: 500 mS

Operating temperature: 32°F - 122°F (0°C - 50°C)

Accuracy: 0.2% of input span

CMMR: 120 dB

Input

Thermocouple: Types J, K, L, N, T

RTD: Type PT100, 3-wire

Scaling: °F or °C programmable

Sensor burnout: Up or down scale programmable

Output/Heating

Type: SPDT relay or SSR drive, jumper selectable

SSR logic voltages: Logic 1 = 24 V @ 1 mA nominal; Logic 0 = <0.5 V

Relay rating: 3 A @ 250 Vac resistive

Outputs/Cooling and Alarms

Alarm 1 or cooling output type: SPDT relay or SSR drive

Relay rating: 2 A @ 250 Vac resistive

SSR logic voltages: Logic 1 = 24 V @ 1 mA nominal; Logic 0 = <0.5 V

Alarm 2: SPST relay only

Alarm modes: Process, band or deviation with auto or manual reset

Control Actions

Type: PID or SMART self-tuning

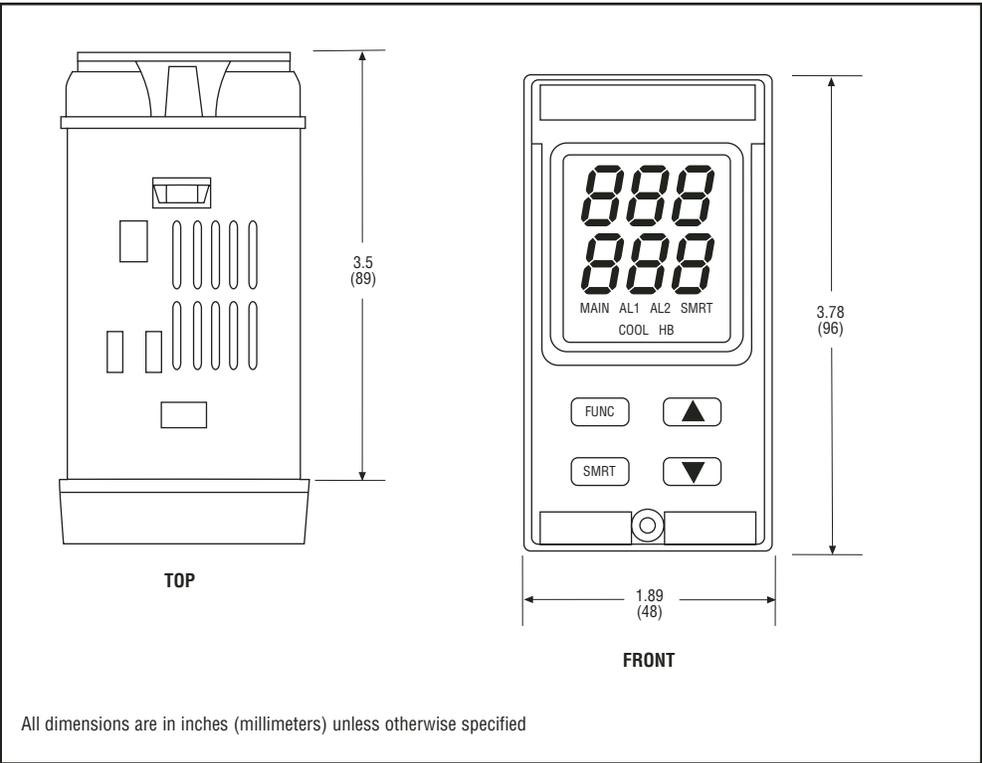
Proportional band: 0.1% to 99.9% of span

On/Off: Set proportional band = 0%

Set point ramp: 1 to 100 degrees/minute

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Ordering Guide

Model	Code	Description	Code	Power
1440	2	Heat/cool and alarms	3	110/220 Vac (switching)

Ordering Example: 1440 - 2 - 3

- Current sense transformers sold separately. Specify P/N820754 for 0 - 25 AMP and P/N802755 for 0 - 100 AMP

Delivery

Express delivery