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
Sample rate: 500 mS
Rear connections: Screw terminals
Operating temperature: 32˚F - 122˚F (0˚C - 50˚C)
Power supply: 100 to 240 Vac, 50/60 Hz (switching)
Accuracy: 0.2% of input span
Indication: Dual LED display; 10 mm high green upper and orange lower display
CMMR: 120 dB

Input
Thermocouple: Types J, K, L, N, T
Scaling: °F or °C programmable
RTD: Type PT100, 3-wire
Sensor burnout: Up or down scale programmable

Output/Heating
Type: SPDT relay or SSR drive, jumper selectable
Relay rating: 3 A @ 250 Vac resistive
SSR logic voltages: Logic 1 = 24 V @ 1 mA nominal; Logic 0 = <0.5 V

Outputs/Cooling and Alarms
Alarm 1 or cooling output type: SPDT relay or SSR drive
Alarm 2: SPST relay only
Alarm rating: 2 A @ 250 Vac resistive
Alarm modes: Process, band or deviation with auto or manual reset
SSR logic voltages: Logic 1 = 24 V @ 1 mA nominal; Logic 0 = <0.5 V

Control Actions
Type: PID or SMART self-tuning
On/Off: Set proportional band = 0%
Proportional band: 0.1% to 99.9% of span
Set point ramp: 1 to 100 degrees/minute
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Ordering Guide

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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