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Series 1000™

Very Easy to Use - Dial Setpoint

1/4 DIN Analog Controller / Limit Device

DESCRIPTION

The Series 1000 are versatile analog controllers designed for rugged, reliable, low cost control of process variables in harsh industrial environments, even those plagued by environmental electronic noise.

Available as a non-indicating analog on/off controller or high or low limit device, it offers a quality level not commonly found in comparably priced devices. It is a 1/4 DIN instrument with a depth of only 5.8 inches. All versions are UL recognized and CSA certified as controllers and limit devices are FM approved.

The Series 1000 can accommodate J, K, T, R, B, and S thermocouples. Outputs are either SPST or SPDT electro-mechanical relay or solid state relay drivers.

APPLICATIONS:

Ideal for temperature control or high or low limit applications requiring a value-priced, non-display, dial set controller.

INDUSTRIES:

- Industrial and lab ovens/furnaces, plastics and thermal forming
- Form/fill and seal
- Packaging applications
- And any others where low cost and simplicity are critical requirements.

FEATURES/BENEFITS

- Non-display, easy dial setting
- 1/4 DIN panel mount
- Thermocouple input
- Sensor fault detection
- Relay or SSR driver output
- High or Low Limit or On/Off control

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SPECIFICATIONS*

STANDARD FEATURES

Output via relay or SSR driver
Available inputs for popular thermocouple types
Sensor fault detection
Optional Remote Reset

ENVIRONMENTAL CHARACTERISTICS

Operating Temperature: 0 to 55°C, 32 to 131°F
Storage Temperature: -40 to 65°C, -40 to 149°F
Humidity: 0 to 95% RH, non condensing

ELECTRICAL

Line Voltage: 115 or 230 VAC, ±10%, 50/60Hz
Power Consumption: 15VA maximum

INPUTS

Thermocouple types: J, K, T, R, S and B
Sensor Fault Detection: Upscale or downscale for thermocouple inputs

OUTPUTS

Relay: SPST or SPDT
115VAC: 5.0A Resistive; 1/8 HP or 250VA
230VAC: 5.0A Resistive; 1/8 HP or 250VA
SSR Driver: Open collector output short circuit protected at 40mA maximum. Provides 5VDC at 23mA or 3VDC at 30mA.

INDICATORS

High or Low Limit devices incorporate an alarm indication with green and red LEDs.
On/Off controllers incorporate a red LED that denotes the output relay is energized and a green LED to indicate power.

SETPOINT ADJUSTMENT

Adjusted via a potentiometer which is fitted with a knob.
Limit devices are equipped with a clamp arrangement providing a lock to prevent setpoint changes.

RESET

Limit devices include switch to reset the control once the alarm condition is removed.

PERFORMANCE

Measurement Accuracy: ±1% of span, at 25 deg C
Ambient Temperature Error: ±0.04% of span /deg C deviation from 25 deg C
Noise Rejection:
Common mode: >85dB at 60Hz, 115VAC maximum
Normal Mode: >65dB at 60 Hz) or greater, 0.5V p-pmax. for no relay chatterwith 1% hysterisis

PHYSICAL DIMENSIONS

Dimensions: 1/4 DIN front panel, 147mm (5.8") deep
Weight: 3 lbs. maximum
Vibration: 0.5 to 100Hz at 0.5g

RATINGS/AGENCY APPROVALS

UL & cUL recognized (E67237)
CSA (LR39885)
FM (120694.MMO) Limit Only

WARRANTY

1 year

* Specifications are for base models with standard features only unless otherwise noted. Specifications subject to change without notice in accordance with our DBS policy of continuous improvement. All product and brand names are trademarks of their respective owners. All rights reserved.

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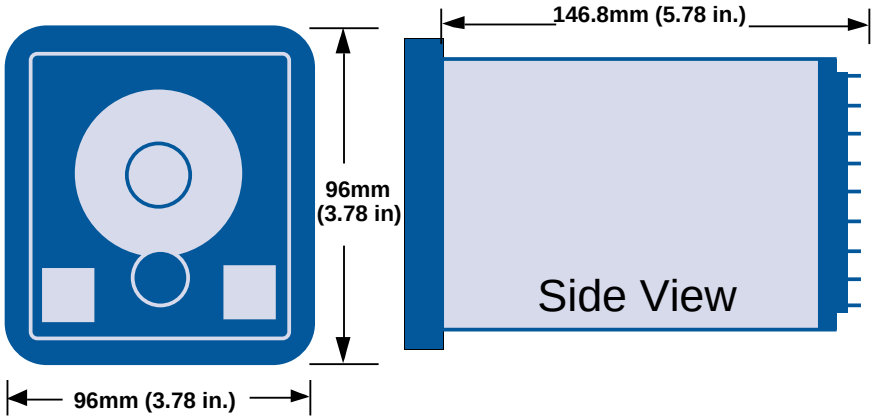
1/4 DIN Analog Controller / Limit Device

MODELS

Code 1: Model #	Code 2: Type	Code 3: Input (Code - Type T/C - C - F)				Code 4: Output	Code 5: Options	Code 6: Voltage	Code 7: Jumper Config
10	0					0			
I/4 DIN Analog Temperature Controller and Limit Device	**0** Controller **1** High Limit **2** Low Limit	**11** J **12** J **13** J **21** K **31** T **32** T **41** R **51** B **61*** S **71*** E	0 to 400 C 0 to 750 C 0 to 120 C 0 to 1350 C -100 to 200 C -100 to 200 C 200 to 1660 C 500 to 1800 C 200 to 1650 C 0 to 750 C	40 to 750 F 40 to 1400 F 32 to 250 F 50 to 2500 F (C Only) -150 to 400 F 400 to 3000 F 900 to 3300 F 400 to 3000 F		**1** Relay - SPST N.O. Contact **2** SSR Driver **3** Relay SPDT N.O./N.C. Contact	**0** None **1** Remote Reset	**1** 115 VAC **2** 230 VAC	**000** High Limit with Upscale Sensor Break **001** Low Limit with Downscale Sensor Break **101** On/Off Direct Controller (Cooling) with Downscale Break **200** On/Off Reverse Controller (Heating) with Upscale Sensor Break

* Available only on a High Limit

DIMENSIONS - 1/4 DIN



Panel Cutout: 92mm x 92mm (3.62" x 3.62")

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