

Control Made Simple.

Future Design's series "8" is a combination surface or DIN rail mount temperature controller that uses the latest in solid state and modular technology.

Setup is accomplished simply by adjusting the set point dial by hand. An integral 20 amp "SPDT" relay eliminates the need for "additional" relays when controlling hi-current loads.

Low cost and simple, The series "8" offers several ranges and is suited for many "OEM" applications.

- ▶ 20 AMP RELAY
- ▶ EASY MOUNTING
- ▶ SURFACE OR DIN RAIL MOUNT
- ▶ UL AND CUL APPROVAL



FDC SERIES "8" CONTROLLER

COMPACT DESIGN

- Small footprint takes minimal panel space.

INDICATION

- Power and load-on indication.

SIMPLE OPERATION

- Simple setup, reduced learning curve.

TWO YEAR WARRANTY

FDC SERIES "8" SPECIFICATIONS

POWER

115/230VAC, 50/60Hz. 3VA Max

INPUT

Thermocouple/RTD: J, K, RTD
 See P/N for ranges.

T/C COMPENSATION

Automatic cold junction compensation.

CONTROL OUTPUT

SPDT Relay rated at 20A resistive. 120/240VAC.

INDICATION

Red and Yellow indicator lights for power and load on.

CONTROL MODE

On/Off, Latching or Proportional (see P/N matrix)
 Prop Band fixed at 2.5% of input range.
 Cycle Time fixed at 20 secs.
 Hysteresis set at 0.5% of full scale above and below setpoint.

SETPOINT ADJUSTMENT

Local setpoint dial adjustment.

SETPOINT ACCURACY

+/- 1% of FS maximum at 25°C and rated line voltage.

SENSOR BREAK PROTECTION

Open sensor cause upscale output condition.

AGENCY APPROVALS

UL & cUL. FILE #E197958

ENVIRONMENTAL, ELECTRICAL AND PHYSICAL

Operating Temperature: 0 to 55°C
Common Mode Rejection: 60dB
Normal Mode Rejection: 120dB
Input Impedance: 200M ohms
Dielectric Strength: 200VAC, 50/60Hz, 1 MIN.
Vibration: 10-55Hz, AMPLITUDE 1.0MM
Shock: 20G
Dimensions: SEE DWG ON REVERSE SIDE

ORDERING INFORMATION

Enter a number in each box which corresponds to the specifications you want when ordering the Series "8".

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INPUT RANGE

Z089: LATCHING OR ON/OFF., 115/230VAC, "K" T/C 0 to 2000°F (-20 to 110°C), 20A RLY, DIN RAIL

Z090: PROP CONT., 115/230VAC, "J" T/C 0 to 1000°F (-20 to 540°C), 20A RLY, DIN RAIL

Z093: LATCHING OR ON/OFF., 115/230VAC, "J" T/C 0 to 1000°F (-20 to 540°C), 20A RLY, DIN RAIL

CONTACT FACTORY FOR ADDITIONAL INPUT TYPES AND RANGES AVAILABLE.

Series "8" Input Wiring & Dimensional Drawing:

