

Future Design's 200 Series controllers take advantage of time proven SMD technology. Software has been refined and offers logical menu structures and advance noise immunity.

By using the unique "Conf" function, the user has the flexibility of assigning any parameters to be shown at the operator level. Fuzzy logic + PID keeps you "in control" even in the toughest applications. 5 scans per second (input sample rate), timer function and programmable ramp rate are standard features on the 9200. The 9200 offers a wide variety of outputs/alarms to meet your control needs.

- Fuzzy Logic
- RS-485 Interface
- Ramp rate function • Security Configurable
- UL/CSA/CE
- Timer Function
- Nema 4X/IP65 protection



SERIES CONTROLLERS

# FDC-200 Series Specifications

FDC-200

### POWER

90-264VAC, 50/60Hz 20-32VAC/VDC

### INPUT

Thermocouple (T/C): Type J,K,T,E,B,R,S,N RTD: PT 100 ohm RTD (DIN 4370 or JIS) Linear: 4-20, 0-20mA, 0-10V Range: User configurable Accuracy: Typically better than ± .25% of span Cold Junction Compensation: 0.1°C/°C ambient typical Sensor Break: Protection mode configurable Linear Voltage Input Impedance: 100K ohms External Resistance: 100 ohms maximum Normal Mode Rejection: 60dB Common Mode Rejection: 120dB Sample Rate: 5 times per second

### CONTROL

Proportional Band: 0-200°C (0-360°F) Reset (Auto): 0-3600 seconds Rate (Derivative): 0-1000 seconds Ramp Rate: 0-55.55°C (99.99°F)/minute Dwell: 0-9999 minutes Cycle Time: 0-99 seconds

On-Off: with adjustable hysteresis 0-11°C (0.1-19.99°F) Control Action: Direct and reverse

#### INDICATION

Process Display: 0.4" red LED, 4 digits Setpoint Display: 0.3" green LED, 4 digits Status Indicator: Out1, ALM1, ALM2, °C, °F

### CONSUMPTION

Less than 5VA

ENVIRONMENTAL AND PHYSICAL Operating Temperature: -10 to 50°C Humidity: 0-90% non-condensing Insulation: 20M ohms minimum (500VDC) Breakdown: AC 2000V, 50/60Hz, 1 minute Vibration: 10-55Hz, amplitude 1mm Shock: 200m/s<sup>2</sup> (20G)

Weight: 2220 3.8 oz. (110 grams) 9200 5.3 oz. (150 grams) Dimensions: 2220 .94" (H) x 1.8" (W) x 3.89" (D) 9200 1.99" (H) x 1.99" (W) x 3.46" (D)

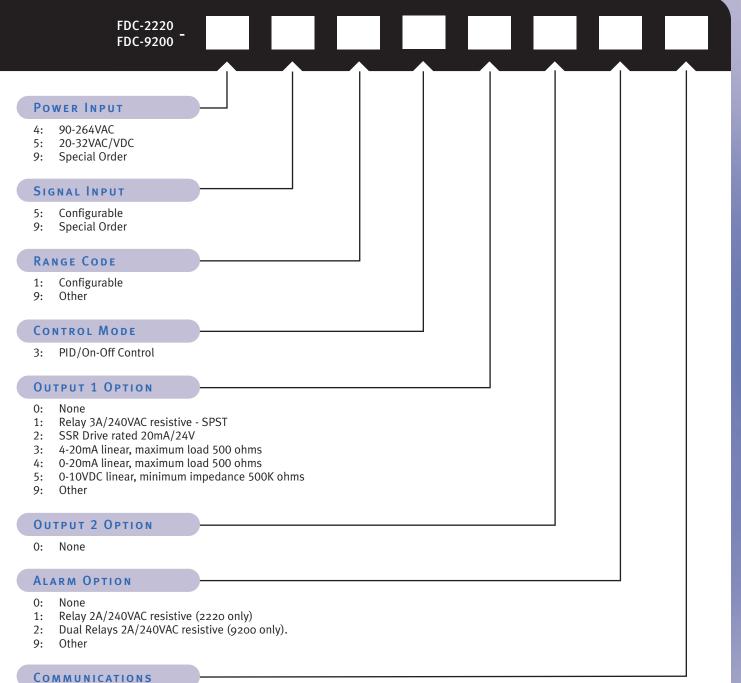
Moldings: Flame retardant polycarbonate

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## FDC-2220 is 1/32 DIN FDC-9200 is 1/16 DIN

# ORDERING INFORMATION

Enter a number in each box which corresponds to the specifications you want when ordering the FDC-200 series.



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- 0: None 1: RS-485
- 2: 4-20mA retransmission
- 3: 0-20mA retransmission
- 9: Other

UL FILE# E196206 CE,CSA

