

Future Design's 2220 series 32nd DIN controllers take advantage of the latest in 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 parameter 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 2220. The 2220 offers a wide variety of outputs/alarms to meet your control needs.

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


FDC-2220 32ND DIN CONTROLLER

FDC-2220 SPECIFICATIONS

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 $\pm .25\%$ 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

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
Status Indicator: Control out and alarm

CONSUMPTION

Less than 5VA

ENVIRONMENTAL AND PHYSICAL

Operating Temperature: -10 to 50°C
Humidity: 0-90% non-condensing
Insulation: 20M ohms minimum (500VDC)
Breakdown: AC2000V, 50/60Hz, 1 minute
Vibration: 10-55Hz, amplitude 1mm
Shock: 200m/s² (20G)
Moldings: Flame retardant polycarbonate
Weight: 3.8 oz. (110 grams)
Dimensions: 0.94" (H) x 1.8" (W) x 3.89" (D)

ORDERING INFORMATION

Enter a number in each box which corresponds to the specifications you want when ordering the FDC-2220.

FDC-2220

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POWER INPUT

- 4: 90-264VAC
- 5: 20-32VAC/VDC
- 9: Special Order

SIGNAL INPUT

- 5: Configurable
- 9: Special Order

RANGE CODE

- 1: Configurable
- 9: Other

CONTROL MODE

- 3: PID/On-Off Control

OUTPUT 1 OPTION

- 0: None
- 1: Relay 3A/240VAC resistive
- 2: SSR Drive rated 20mA/24V
- 3: 4-20mA linear, maximum load 500 ohms
- 4: 0-20mA linear, maximum load 500 ohms
- 5: 0-10VDC linear, minimum impedance 500K ohms
- 9: Other

OUTPUT 2 OPTION

- 0: None

ALARM OPTION

- 0: None
- 1: Relay 2A/240VAC resistive
- 9: Other

COMMUNICATIONS

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

