

Future Design's 4120 series 1/4 DIN controllers take advantage of the latest SMD technology. Software has been refined and offers logical menu structures and advance noise immunity. By using the unique "SEL" function, the user has the flexibility of assigning the parameters to be shown at the operator level. The 4120 offers a wide variety of options to meet your control needs.

Manual control of the output is standard with offset and shift functions to allow process values to be corrected for intrinsic offsets and in-site calibrations. Dual alarms can be independently configured as process alarm, deviation alarm, deviation band alarm or latching alarm.

- Fuzzy Logic
- Timer Function
- Ramp rate function
- Nema 12
- Security Config
- UL/CSA/CE



• 3 scans/second



FDC-4120

1/4 DIN CONTROLLER

FDC-4120 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: -10 to 60mV Range: User configurable Accuracy: Typically better than ± .25% of span Cold Junction Compensation: 0.1°C/°C ambient typical Sensor Break: Protection mode configurable External Resistance: 100 ohms maximum Normal Mode Rejection: 60 dB Common Mode Rejection: 120 dB Sample Rate: 3 times per second

CONTROL

Proportional Band: 0-200°C (0-360°F) Reset (Auto): 0-3600 seconds Rate (Derivative): 0-1000 seconds Ramp Rate: 0-200.0°C (0-360.0°F)/minute Dwell: 0-3600 minutes Cycle Time: 0-120 seconds

On-Off: with adjustable hysteresis (0-20% of span) Control Action: Direct and reverse

INDICATION

Process Display: 0.56" red LED, 4 digits Setpoint Display: 0.4" green LED, 4 digits Status Indicator: Out1, ALM1, ALM2, °C and °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/s² (20G) Weight: 8.46 oz. (240 grams) Dimensions: 3.77" (H) x 3.77" (W) x 2.08" (D)

> PSLinc. 514.852.1616 • 514.329.0012Fax www.psi-qc.com.com

ORDERING INFORMATION

Enter a number in each box which corresponds to the specifications you want when ordering the FDC-4120.

FDC-4120

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
- 2: Dual Relays 2A/240VAC resistive
- 9: Other

COMMUNICATIONS

0: None

