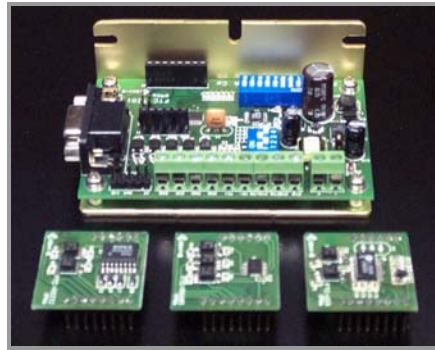


FTC200 Embedded TE Temperature Controller

(Accuthermo Technology Corp. 10/26/09)

Features:

- RoHs Compliance
- Bi-directional embedded temperature control for thermoelectric application
- P, PD, PID, Auto Tuning, On/Off control
- Hi-precision temperature resolution up to 0.01°C
- Thermocouple, RTD, Thermistor sensor input selectable
- Wide temperature control range
- High/Low Alarm output
- RS232, RS485 & USB communication interface option
- Programmable Script process capability
- Powerful GUI application software



*Picture: FTC200 Embedded Controller
with three different communication daughter cards.*

Specifications:

Dimension: 3.5"x2.625"x1.25" (90 x 67 x 32 mm)

Sensor Input:

Thermocouple: J, K, T type

Thermistor: 2.252K & 10K ohm

RTD: 3-wires PT100 (2-wire can be used)

Sensor Range:

Thermocouple: J, K & T type: -70°C ~ 200°C

RTD PT100: -70°C ~ 200°C

Thermistor 2.252K ohm: -45°C ~ 150°C, **10K ohm:** -20°C ~ 150°C

Signal Processing:

Ultra high 24 bits ADC resolution at 20Hz sampling rate

Control:

- P, PI, PID & auto-tune temperature control
- Programmable output power control
- High/Low Alarm setting, option of alarm trigger to disable amplifier
- Extra aux I/O for special feature



Control Output Signal for H-bridge amplifier:

- PWM frequency: 1K Hz, Duty cycle resolution 10000 (0.00%~100.00%)
- Amplifier disable/enable
- Hot/Cold direction
- GND

Communication Interface:

- RS232 serial protocol (N-8-1, 9.6K~57.6K Baud), standard
- RS485 serial up to 8 controllers, optional
- USB, optional

General:

- RoHs Compliance
- Rate Voltage: 5 or 7~36V DC selectable
- Ambient Temperature: 0~50°C
- Ambient Humidity: 0~90%RH

Software:

- GUI software for Window OS
- Examples for Labview programming