**ATEC302 Controller Specifications**

Control
- Modes: Up to Four Temperature Zone P, PI, PD, PID, Autotune, Open-loop Control

Output
- PWM 1KHz, duty cycle resolution=1000 steps
- Hot / Cold direction (logic 0/1)

Input
- Thermocouple: J, K, T
- RTD: PT100 (DIN) α=3850
- Thermistor: 2252 ohm β=3977 or 10K ohm

Resolution
- 0.1°C

Sampling Rate
- 20 Hz

External Control / Communication
- RS232 or RS485 serial protocol (N-8-2) provides capability of one PC controls multiple ATEC302 units
- USB cable Interface (not RS232)
- CRC protocol correction build in for error free communication

Alarms
- 2 Programmable alarms

General
- Rated Voltage: DC 9 – 36V(default) or Regulated 5Vdc (jumper select)
- Ambient Temperature: 0 – 50°C
- Ambient Humidity: 0 – 90% RH (non-condense condition)
- Power Consumption: less than 4W
- IP-65 Panel (front panel splash proof)
- Easy panel-chassis locking mechanism design

Dimensions
- W2.83 inch x 2.83 inch x 3.15 inch (W72 mm x H72 mm x L80 mm)

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**Software**

ATEC302 Control Center Software

ATEC302 Temperature Controller — Easy-to-Use Software

While some temperature control applications may only require very simple control (such as holding the temperature at a target set point), many need their thermoelectric modules to perform multiple functions, following scripts, dynamically changing temperature and following a thermal cycling program.

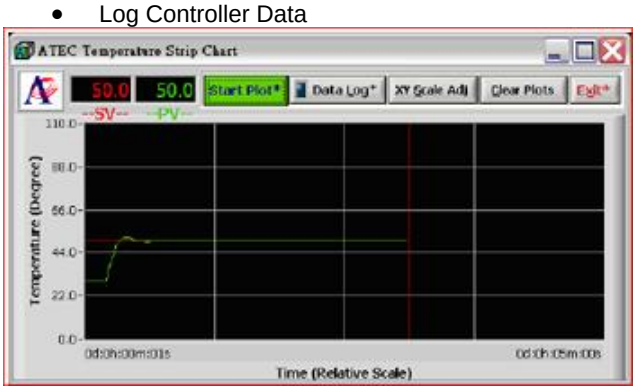
Whether you need an easy-to-operate system, or advanced scripting tools, the ATEC302 Control Center software is an excellent solution for you. For ease of use, the graphic interface makes operating the controller a snap.

### Access Most ATEC302 Controller Settings Using One Convenient Window

- Simplifies Controller Management with Easy-to-Operate Graphic User Interface
- Provides Access to Advanced Scripting Capabilities
- Save Controller Parameters
- Access Stored Parameters
- Log Controller Data

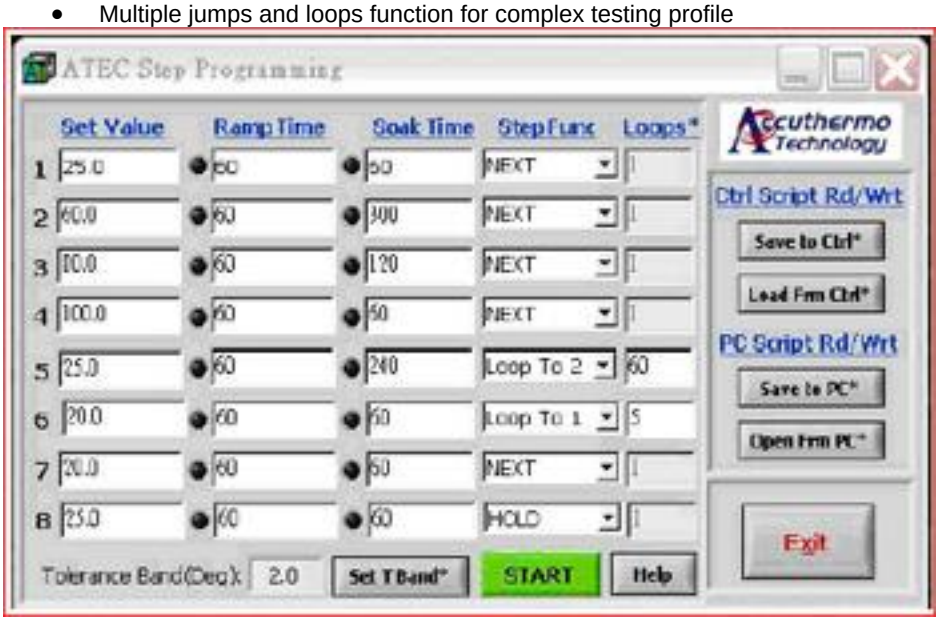

## Log and Plot Temperature Operations

- Visually interpret thermal data
- Log Controller Data




## Access Advanced Scripting Capabilities

- Set multiple target temperatures and program steps for advanced applications like thermal cycling
- Save and load script parameters from stored files on your disk drive
- Multiple jumps and loops function for complex testing profile




ATEC302 Control Center software operates on Microsoft Windows® XP/Vista/7 (all 32bits OS)