# Adaptive Junior Controller ADJ – 48 – 450 - UR



#### Features

- High efficiency load driver
- 4 exernal thermo-couple inputs
- 3 independent programmable fan outputs
- Alarm output
- USB 2.0 and RS232 communication interfaces

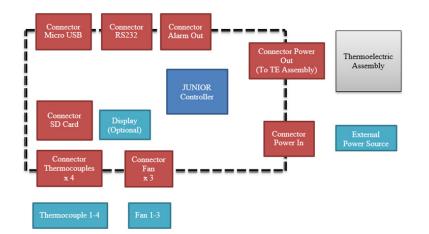
## Description

The Adaptive Junior is a PID controlled pulse width modulator (PWM), intended for thermoelectric cooler or heater applications that require a uni or a bidirectional drive source for accurate temperature control. The controller is capable of operating in a standalone mode, it is also supported by user-friendly PC software. There are additional quick set-up options for manual setpoint adjustment and a selectable fan voltage available.

Optional extras -

- System parameters can be monitored trough an LCD.
- Large number of datapoints can be logged on a micro SD card
- New features will be added (HVAC extension, executable user code)

### System Architecture



#### For more information visit: www.adaptivete.com

# Adaptive Thermal Controllers

Download the user-friendly PC

adaptivete.com/downloads

PC software

software from:

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## Typical specifications

Input voltage range (TEG harvester)	11V to 48V DC
Maximum load (Natural convection)	15A or 250W
Maximum load (Forced convection)	15A or 450W
Control temperature	-50°C to +250°C
Operating temperature	-25°C to +85°C
Compatible fans	2, 3 and 4 wire fans
Fan output voltage range	12V, 24V, 48V
Thermocouple type	K (More types to come)
Communication interface	USB, RS232
Storage	Micro SD, EEPROM
Temperature control accuracy	+/- 0.5°C
Protection	Overcurrent, temperature, fan speed

#### Further information

- Application type Fans & thermal management
- Application sub type Electronics heating & cooling
- Contents: 1x controller board

## Adaptive Thermal Controllers - Part Numbers

ADJ = Adaptive Junior Controller 24 / 48 = Voltage 450 = Wattage

<u>Connection type</u> U – USB connection, R – RS232 connection

<u>Suffix</u> No additional number - standard Additional number : 001 – 999 – custom option

### For more information visit: <u>www.adaptivete.com</u>

