

# Adaptive® CyCLO Controller ADC-48-450-U

## Features

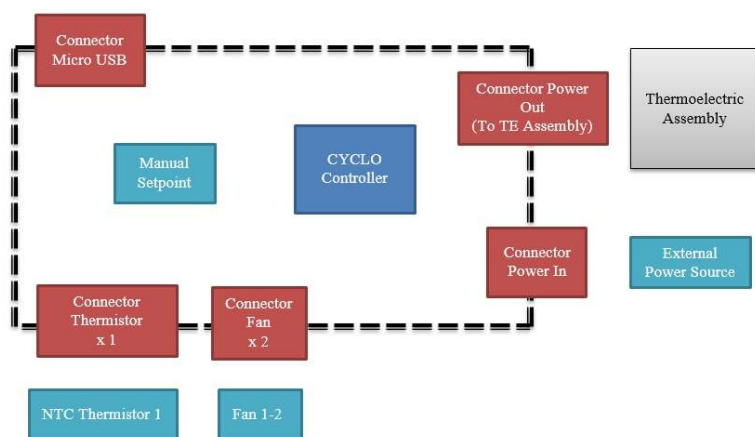
- High efficiency load driver
- Cost effective NTC sensor input
- Hot and cold side fan outputs
- Manual setpoint for quick installation
- USB 2.0 communication
- Visual/alarm feedback (Heating/Cooling/Shutdown)



## Description

The Adaptive® CyCLO is a servo 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. The controller is targeting applications where easy deployment is a requirement.

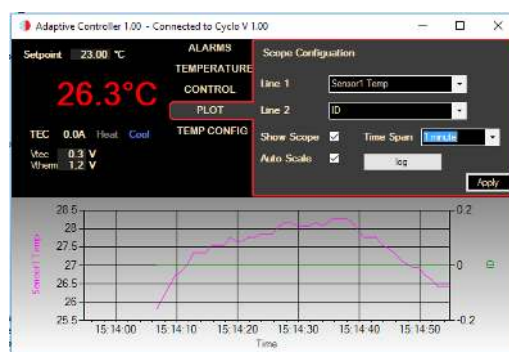
## System Architecture



## PC Software

Download the user-friendly PC software from:

[europeanthermodynamics.com/cyclo](http://europeanthermodynamics.com/cyclo)



# Adaptive® CyCLO Controller

## ADC-48-450-U

### Typical Specifications

Input voltage range	11V - 48V DC
Maximum load	7A
Control temperature	0°C to +50°C
Operating temperature	-25°C to 85°C
Compatible fans	2 wire fans
Fan output voltage range	11V - 48V DC
Sensor type	NTC 10k (pre-calibrated)
Communication interface	USB
Temperature control accuracy	+/- 1°C
Protection	Overcurrent, overvoltage, undervoltage lockout, fuse.

### Further information

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

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### Adaptive Thermal Controllers - Part Numbers

ADC= Adaptive CYCLO Controller

48 = Voltage

450 = Wattage

#### Connection type

U – USB connection

#### Suffix

No additional number - standard

Additional number : 001 – 999 – custom option

