

TC-1600/TC-2010
TEMPERATURE CONTROLLER

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GENERAL SPECIFICATIONS

Input power	90-125,180-250Vac 50-60Hz
Size H×W×D	88×215×280mm (3.5×8.5×11)
Weight	2.9kg
Operating temperature	0°C to +50°C
Storage temperature	-40°C to +70°C
Humidity	<90% relative , non-condensing
Connectors OUTPUT Analog output Analog interface card(optional)	15-pin, D-sub(female) Isolated BNC 15-pin,high density D-sub(male)

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DISPLAY

	TEMPERATURE	RESISTANCE(10 μ A)	RESISTANCE(100 μ A)	TE Current
RANGE	-50.0 to +150.0°C	0.1K Ω to 199.9K Ω	0.01K Ω to 19.99K Ω	-5.00Amps to +5.00Amps.
RESOLUTION	0.1°C	100 Ω	10 Ω	10mA
ACCURACY	\pm 0.2°C	\pm 200 Ω	\pm 20 Ω	\pm 20mA

TEMPERATURE SENSORS

SENSOR TYPES	THERMISTOR(NTC-2wire)	AD590/AD592	LM335
TEMPERATURE RESOLUTION	0.1°C	0.1°C	0.1°C
TEMPERATURE ACCURACY(25°C)	0.05°C	0.5°C	3.0°C
SENSOR BIAS	10 μ A/100 μ A	+12V	1mA

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OUTPUT	VALUE
Maximum current	5Amps
Compliance voltage	10 Volts
Available output power	50 Watts
Current limit Range	
Accuracy	0to5A
Ripple/noise(rms)	<2mA
Stability	
Short term (10to30min)	0.005°C
Long term (24hour period)	0.01°C
External fan power	12v 800mA max

APPLICATIONS: Used for providing superior temperature stability and wide range of power outputs.

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