





The 586 TECPak OEM temperature controller is a compact, high-power temperature controller that can be used independently or with a LaserPak to form a complete system. The TECPak offers the same quality instrumentation as our bench top units, but in a smaller and lower cost solution for custom systems.



EXCELLENT STABILITY

The 586 offers \pm 0.004°C temperature stability over 1 hour, and only \pm 0.01°C fluctuation over 24 hours.



AUTO-TUNE AUTOMATIC PID CALCULATION

The 586 series automatically calculates PID parameters for your mount.



FULLY ADJUSTABLE PID VALUES

Every TECPak has eight factory-set gain settings, along with the option to choose your own.



DUAL SENSOR INPUTS

Simultaneously monitor both cold plate and device temperature.



INTEGRATED FAN POWER SUPPLY

Provides integrated supply to power a laser mount cooling fan.

AT-A-GLANCE

Power Ranges

- 190 Watt / 4 Amp / 56 Volt
- 190 Watt / 8 Amp / 26 Volt
- 392 Watt / 8 Amp / 56 Volt
- > 345 Watt / 15 Amp / 28 Volt

Works With

- Thermistors
- RTD (2- or 4-wire)
- ▶ LM335
- Heat & Cool
 - TEC Modules & Resistive Heaters

Save Space

Compact Enclosure

Remote Operation via PC

- Use your existing control code. Our command set is compatible with other manufacturers.
- USB Connection



DRIVE ANY ARROYO LASERMOUNT.

The 586 Series TECPak will drive any Arroyo Instruments laser fixture and many compatible fixtures. Connections are easy, and we offer purpose-built cables.

Plug and play compatibility.

586 SERIES TECPAK SPECIFICATIONS

		586-04-56	586-08-26	586-08-56	586-15-28	JOU SENIES
	Current		1			TECPAK
	Range (A)	±4	±8	±8	±15	SPECIFICATIONS
	Compliance Voltage (V)	±56	±26	±56	±28	1
	Max Power (W)	190	190	392	345	
	Resolution (A)	0.01				
le	Accuracy (\pm [% set point + A])	0.5 + 0.01				
	Noise/Ripple (mA, rms)	< 15	< 15	< 20	< 25	
<u>ک</u>	Temperature Control					
Lix	Range (°C) ¹	-99 to 250				_
≏	Resolution (°C)	0.0012 0.054				-
	Thermistor Accuracy (± °C) ³					
_	LM335 Accuracy (± °C) ³	0.05				-
-	RTD Accuracy (± °C) ³	0.004				_
_	Short Term Stability (Inr) $(\pm {}^{\circ}C)^{\circ}$	0.01				-
	Short term stability (24hr) $(\pm {}^{\circ}C)^{\circ}$	0.01				_
	Current					
	Resolution (mA)		1	0		
	Accuracy (± mA)	10	20	20	30	
	Voltage					
	Resolution (mV)	10				_
	Accuracy (±V)	0.05				-
	Sensor ⁶					-
	10μA Thermistor	01.450				-
	Range (kΩ)	0.01				-
	Resolution (K12)	0.05 ± 0.05				-
<u>e</u>	Sensor 2 Accuracy $(\pm [\% reading \pm k\Omega])$	0.03 + 0.05				-
		0.20 + 0.05				-
- Š	Bange (kO)	0.05 - 45				
ent	Resolution (kΩ)	0.001				1 Software limits Actual range dependent
e e	Sensor 1 Accuracy (\pm [% reading + k Ω])	0.05 + 0.005				on sensor type and system dynamics.
sur	Sensor 2 Accuracy (\pm [% reading + k Ω])	0.20 + 0.005				
lea	LM335					3 Accuracy figures are the additional
2	Bias (mA)	1				error the 586 TECPak adds to the
	Range (mV)	1730 - 4250				measurement, and does not include the sensor uncertainties.
_	Resolution (mV)	0.1				
	Accuracy (± [% reading + mV])	0.3 + 1				3. 25°C, 100 μA thermistor.
_	RTD					 4. Stability measurements done at 25°C using a 10 kΩ thermistor on the 100 µA setting. The number is ½ the peak-to- peak deviation from the average over the
	Range (Ω)	20 – 192				
	Resolution (Ω)	0.01				
	Accuracy ($\pm [\% reading + \Omega]$)	Accuracy (± [% reading + 12]) 0.03 + 0.1				
	Current Limit					6. Specifications apply to both primary and auxiliary sensors unless otherwise indicated.
	Accuracy (± A)	0.1				
	Accuracy (± A)	0.2				
eral	TEC Connector	17W2, female				
	Fan Supply	8 – 12V, 350mA max				
	Computer Interface	USB 2.0 Full Speed (Type B)				-
	Power	Universal, 90V to 240V, 50/60 Hz				_
ene		250W 250W 600W 600W				-
U	Size (H x W x D) [inches (mm)]	3.5 (89) x 12 (305) x 14 (356)				-
-	Weight [Ibs (kg)]	11.0 (5.3)				-
	Storage Temperature					www.arrovoinetrumente.com
		-20°C to +60°C				

www.arroyoinstruments.com

sales@arroyoinstruments.com

arroyo Instruments 800-644-0416 1201 Prospect Street, San Luis Obispo, CA 93401