

## 586-08-26 TEC Pak, 8A/26V



### Overview

The 586-08-26 TEC Pak is a high performance, compact temperature controller for applications that do not require (or need to omit) a full user interface. Powerful (190W), capable (two sensor inputs, interlock, fan controller), and compact, the 586-08-26 is an excellent mix of features, size, and price.

- **AutoTune automatic PID**
- 8A, 26V (190W) of TEC power
- 0.004°C stability
- Bi-polar output: heat & cool
- Thermistor, LM335, and RTD sensors
- 4-wire RTD mode
- Small OEM enclosure

### Excellent Stability

The 586 offers excellent short term and long term stability. At less than 0.004°C stability over one hour, and 0.01°C over 24 hours.

### Fully Adjustable PID with AutoTune Automatic PID Calculation

Preprogrammed with eight factory set gain settings that support most applications, as well as fully adjustable PID settings. AutoTune for automatic PID calculation simplifies the determination of PID values for your mount.

### Simple Multi-Channel System

Using the [1402C-RM Rack Mount Tray](#), you can quickly rack up to three 586 Paks into a rack for a quick multi-channel system.



## Specifications

### Key Specs

Power (A, V, W)	<b>±8A, ±26V, 190W</b>
Stability (1 hour, °C)	0.004
Stability (24 hours, °C)	0.01

### Temperature

Range (°C)	-99 to 250
Resolution (°C)	0.001
Thermistor (100µA) Accuracy at 25°C (°C)	0.05
LM335 Accuracy at 25°C (°C)	0.05
RTD Accuracy at 25°C (°C)	0.05

#### Thermistor, 100µA Range

Accuracy (±[% reading + kΩ])	0.05 + 0.005
Range (kΩ)	0.05 – 45
Resolution (kΩ)	0.001

#### Thermistor, 10µA Range

Accuracy (±[% reading + kΩ])	0.05 + 0.05
Range (kΩ)	0.1 – 450
Resolution (kΩ)	0.01

#### LM335

Accuracy (±[% reading + mV])	0.3 + 1
Range (mV)	1730 – 4250
Resolution (mV)	0.1
Bias (mA)	1

#### RTD

Accuracy (±[% reading + Ω])	0.03 + 0.1
Range (Ω)	20 – 192
Resolution (Ω)	0.01
Bias (mA)	1

### Current

Accuracy (±[% value + A])	0.5 + 0.01
Range (A)	±8
Resolution (A)	0.01
Noise/Ripple (A, rms)	< 0.015

### Voltage (measurement only)

Accuracy (±[% reading + V])	0.2 + 0.05
Range (V)	±26
Resolution (V)	0.01

### Other

TEC Connector	17W2, female
Computer Interface	USB 2.0 Full Speed (USB Type B)
Power	Universal 90 - 250 VAC, 50/60 Hz
Size (H x W x D) [inches (mm)]	3.2 (82) x 5.1 (130) x 11.5 (292)
Operating Temperature	+10°C to +40°C
Storage Temperature	-20°C to +60°C