285-01 TECMount, M3

- **50W thermal capacity**
- Active TEC cooling
- Large cold plate with bread-board mounting, M3 holes
  Customized mounting plates available

The **285 TECMount** provides a flexible high-power heating and cooling platform designed to meet demanding temperature control requirements. With a large 4" square cold plate with a breadboard-style mounting system, the 285 is easily integrated into a broad range of applications.

Standard Breadboard Plates
The 285 cold plate is available in a bread board configuration with M3 holes, providing a flexible mounting platform.

Flexible Mounting Surface
Engineered to provide edge access from three sides of the cold plate.

High Temperature Option

The 285 is available in an optional high temperature configuration, 285-01-150, allowing for operation up to 150°C, but retaining the temperature range and thermal capacity of the standard mount. Because thermistors do not perform well at high temperatures, the sensor is replaced with a high accuracy Pt 100 RTD sensor.

Customizable Aluminum Cold Plate
When our standard breadboard plates just don't fit, the cold plate on 285 mounts can be custom machined to fit the exact hole pattern of your application. We can put mounting holes just where you need them so your device mounts directly to the plate, without the need for adapters or modification.

Temperature Sensor Switch
Does your device have an onboard temperature sensor? Flip a switch to bypass the mount's cold plate sensor and send the signal directly to your temperature controller.

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Specifications

Key Specs	
Thermal Capacity	50W at 25°C
Cold plate	4" square solid aluminum, hard nickel plated Breadboard, M3 holes
Temperature Control	
Temperature Range (°C)	-5 to +85, non-condensing
Sensor Type	10kΩ Thermistor
Recommended Controller	5305 or 5310
TE Current, Max (A)	12 (recommend 8 Amp ITE Limit)
TE Voltage, Max (V)	20 (at 25°C)
General	
Size (H x W x D) [in(mm)]	2.68 (68.1) x 4 (101.6) x 6 (152.4)
TEC Connector	DB15, male Phoenix 2-pin