



TEMPERATURE CONTROLLER KIT MEK-06-001



The **MEK06-001** is one in a sequence of controller based kits developed for a number of applications requiring some sort of input control, over one of the outputs that is either switched (ON-OFF) or PWM controlled, according to the input variable and a given function.

The **MEK06-001** is specifically designed as a temperature controller, in that the output is switched ON when a given input (temperature) is reached. And it will return to the OFF position, once the temperature or the input returns to the set value, plus the set hysteresis.

The actual sensor is an **LM35**. The LM35 is a linear temperature sensor that outputs a voltage proportional to temperature.

OPERATION



The controller requires 12VDC (10 to 14VDC), which must be connected to the +V1 and GND terminals. Polarity must be observed.

The pre-assembled sensor, cable and connector, simply plugs into CN5. The cable only plugs in, in a given orientation.

The output, is in the form of a changeover relay contact. This must be wired to the load in the desired manner.

VR1 is the temperature setting potentiometer and the 50% position equates to about 50 degrees C.

VR2 is the hysteresis setting and its 50% position equates to about 3 degrees Celsius.

There are two LEDs on the board. D2 indicates the presence of power, while D16 indicates that the temperature is above the set point.

