



BOX 6354, KINGMAN, AZ 86402-6354  
PH: (928) 692-8903 - WEB: [www.ThousandOaksOptical.com](http://www.ThousandOaksOptical.com)

## **Digital Dew Heater Control**

### **FOUR CHANNEL HEAT ADJUSTMENT:**

Each heater output is controlled independently and has a full range of adjustment from 0-100%. This eliminates the problem of overheating or not reaching desired temperature regardless of heater size and combination. Green LED indicates unit is powered and also serves as a low power warning in the "battery saver" mode. Each channel has its own red LED on indicator. Unit is small and lightweight measuring 5" x 2.5" x 1" (127mm x 63mm x 25mm). Supplied with 12' (3.65m) power cord and cigarette lighter adapter.

### **BATTERY SAVER:**

Have peace of mind when using your vehicle battery, knowing that you will always have ample charge to start the engine. Unit automatically turns off if voltage drops below 11V. At 11.25V green LED begins blinking indicating unit will turn off in approximately 15-60 minutes depending on size and number of heating bands being used. The battery saver function can be disabled if using a dedicated battery. To disable the battery saver feature, move dip switch #1 located inside the small square hole on the left side to the down position. Dip switch # 1 is left. Dip switch # 2 is not used and can be in either position.

### **AUXILARY 12V OUTPUT:**

Extra RCA outlet with constant 12V DC to power a telescope or auxiliary device. Voltage may vary slightly when using larger heating bands on low power due the "pulse width modulation" circuitry.

### **HEATER BANDS:**

Other brands with an RCA jack will work with our unit, however, we cannot guarantee the controller if another brand shorts and causes damage. Some brands use light gauge wires in a loose plastic sleeve. Over time they can deteriorate and short. Careful inspection of the wires should be done often.

## **FUSE LOCATION:**

There is a 5 amp fuse located inside the cigarette lighter adapter. To replace, unscrew the knurled nut near the tip. Do not use a higher amp fuse as damage will likely occur if there is ever a short. **CAUTION: THE TIP OF THE ADAPTER MAY BE HOT! DO NOT TOUCH THE END AFTER REMOVING FROM SOCKET.** Let cool for several minutes.

Average power required for powering 2 to 4 bands is 3-4 amps. Unit is designed to handle 10 amps max, however, it's unlikely more than 5-6 amps would be required for most applications.

Our bands use the following amperage when set to high: HB-2 (0.25), HB-4 (0.30), HB-6 (0.35), HB-15 (0.94), HB-27 (1.60), HB-30 (1.87), HB-37 (2.35).

## **WARRANTY:**

Should the product fail within the warranty period of one year, it will be replaced with the same or functionally equivalent product.

-Return to Thousand Oaks Optical with proof of the original date of purchase.

-Return with shipping charges prepaid. Replacement will be sent with S/H prepaid.

Prior to returning any defective product, the end customer or the reseller from whom the end customer originally purchased the product must obtain a return Material authorization (RMA) number from Thousand Oaks Optical.

All controllers and heating bands are covered by a limited liability warranty from defects in material and workmanship. This warranty does not apply, if in the judgment of Thousand Oaks Optical, the product fails to be safe due to shipping damage, damage from handling, storage, abuse or misuse, or it has been used or maintained in a manner not conforming to product's instructions or has been modified in any way. Repair by anyone other than Thousand Oaks Optical will void the warranty. The maximum liability of Thousand Oaks Optical under this warranty is limited to the purchase price of the product covered by warranty.

Except as specifically provided in this agreement or as required by law, the warranties and remedies stated above are exclusive and in lieu of all others, oral or written express or implied. Any and all other warranties, including implied warranties of merchantability, fitness for a particular purpose and non infringement of third party rights are expressly excluded. Thousand Oaks Optical shall not under any circumstances be liable to any person for any special, incidental, indirect or consequential damages, including without limitation, damages resulting from use or malfunction of the products, loss of profits or revenues or cost of replacement goods, even if Thousand Oaks Optical is informed in advance of the possibility of such damages.