



THERMISTOR FOR SMART DEWHEATER CONTROLLERS

94037

INSTRUCTION MANUAL



The Thermistor for Smart DewHeater Controllers is required for automatic “smart control” of a non-Celestron heating band or heating strip with the Celestron Smart DewHeater Controllers. The thermistor allows the controller to detect how much heat the heating band is applying to the telescope. Along with the controller’s integrated environmental sensor, the thermistor helps determine how much power the heating band needs to keep the optics free from dew. This system provides the most efficient power usage for dew prevention, greatly extending battery life. If you choose not to use the thermistor, you can only set the heating band power manually. If you are using a Celestron Dew Heater Ring, this thermistor assembly is not required, as the ring already has a built-in thermistor.

If you are using another manufacturer’s heating band or strip, it needs an RCA-type plug to connect to the controller’s heater output ports. Connect the heating band to the telescope and connect its plug to one of the controller’s dew heater ports. Then, place the tip of the probe thermistor under the heating band (Figure 1). We suggest using tape to secure it firmly in place.



Fig. 1: Place the thermistor under the heating band so that it is secure.

Connect the thermistor's plug to the thermistor port corresponding to the dew heater port you are using on the controller (Figure 2). Once the thermistor is connected, the controller will automatically adjust the power to the heating band based on the data from the thermistor and the controller's environmental sensor.

Each dew heater port on the controller can deliver a maximum of 84W power (7A max current), which should be more than enough for most dew heating bands or strips. For more information about automatic "smart control" of a dew heater, refer to the instruction manual included with your Celestron Smart DewHeater Controller.



Fig. 2: Connect the thermistor's plug to the thermistor port corresponding to the dew heater port you are using on the controller

SPECIFICATIONS: Thermistor plug: 2.5mm Audio



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FCC NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Please note that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Product design and specifications are subject to change without prior notification. This product is designed and intended for use by those 14 years of age and older.