

# Operating Instructions for the Kendrick #2001 Controller (Models I to VII)

The Kendrick Dew Remover System is centered around the controller. The #2001 controller is a compact, lightweight duty cycle switch that is fused and reverse polarity protected. The power cord is 6' long and has a cigarette lighter plug. There are four RCA jacks on the controller to plug your heaters into. With the addition of an RCA splitter cord, 5 to 6 heaters can be attached. This would allow the operator to use heaters for the main objective, both ends of a finder or guide scope and a telrad.

The red LED indicates whether your system is receiving power. The power output from the controller can be varied from 40% to 100%. As the controller is a duty cycle switch, it controls the power getting to your heaters by shutting it on and off many times each minute. When the controller is set on low, the heaters will continue to draw the same amount of current, only 40% of the time. Low to medium is the recommended setting for most observing conditions.

The controller is not a transformer and must be supplied with 12VDC. The controller is supplied with Velcro that will allow it to attach to your tube assembly, mount or tripod at your discretion.

**The fuse for the controller is located in the cigarette lighter jack and can be accessed by, depending on what model controller you have, by pushing in the metal pin on the front of the plug, turning it counterclockwise and then pulling it out. Other controllers may need to have front tip screwed off. If the red LED fails to come on, this should be the first thing you check.**

## HOW TO USE THE SYSTEM

The heaters wrap around your objectives, label side out and are held in place by elastic/Velcro attachments. Put your heaters in place at the beginning of an observing session with the controller at or near its lowest setting. This should be good enough for most observing sessions. The high setting is only recommended for removing moisture already collected on your objectives or for cold winter nights. If moisture has formed on your optics, put the controller on high and wait 15 to 30 minutes for the optics to warm up. SCTs should clear by then, refractors can have excess moisture removed with a tissue. You can then reset the controller to a lower setting.

## POWER REQUIREMENTS

We recommend, as a minimum, that a 12 amp hour rechargeable battery be used with this system. For individuals wanting to use household current, we have a 120v and 240v converters that puts out 12v DC at 4.5 amps.

It is recommended that a lead acid battery be used. If you are using household current it must be transformed to 12vDC and your transformer must be rated for the amp requirements of your system : if your system draws 1.5 amps, then your transformer must be rated for at least 1.5 amps.

See the Heater Amp Hour Rating Chart below to help determine what you will need:

Telrad	.88	9/10/11"	2.00
.965/1.25"	.17	12"	2.75
1.25/2"	.19	14/16"	4.75
2"	.25	Secondary Mirrors	
3"	.68	S2	.16
4"	.85	S3	.33
5"	1.40	S4	.75
5.5/6.5"	1.50	Others	
7/8"	1.60	Computer pad	3.17
		LX 200 control pad	.80