

AS - 40L DIMMER

Revision 3.1

09/09/1999



IMPORTANT: Please take a moment to read this manual before operating the AS-40.

DESCRIPTION

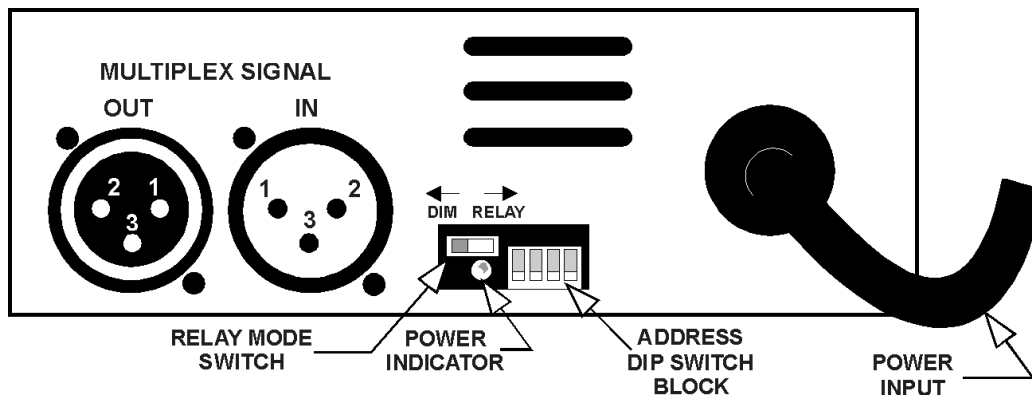
The AS-40 is a 4 channel, 600 Watts per channel portable lighting dimmer. The maximum load for the unit is 2400 Watts. The AS-40 is compatible with the industry standard 3 wire multiplex control signal protocol. The unit is compact, very rugged, and simple to operate. There are no adjustments needed for pre-heat or trimming since the unit uses autosync circuitry. The unit is protected from control cable shorts/miswiring by an internal device. Output channels on the AS-40 may be assigned, in groups of 4, to channel numbers 1 through 64.

INSTALLATION

LOCATION: The AS-40 is designed to be mounted to a light truss or bar using a pipe clamp or similar secure mounting intended for this purpose. A safety cable must be used in conjunction with the clamp to secure the unit in the event of clamp failure. The AS-40 should be kept away from moisture and excessive heat. Please use common sense.

CONTROL SIGNAL CONNECTIONS: The male three pin "XLR" connector on the end of the unit connects to your lighting console. The female "XLR" connector is used to connect to other dimmers.

POWER CONNECTIONS: A dual blade, grounded, power input cable is provided at one end of the unit to connect to a 120 volt AC, 20 Amp grounded service. The LED indicator located near the input power cable will indicate when power is applied. The 4 power sockets (2 on each side of the unit) are the 4 output channels to be connected to the lamps.



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OPERATION

The AS-40 is internally set to be compatible with most 3 pin multiplex protocols. Contact Lightronics if you need to change this to run with older Lightronics consoles and/or dimmers.

A "DIP" switch block is located on one end of the dimmer near the AC power cord. It has 4 switches on it which are used to select which control console channels the dimmer will respond to. Use the table which is printed on the AS-40 cover to select the proper switch settings. A "1" in the table indicates a switch in the UP position.

The AS-40 may be switched into a "non-dim" or "relay" mode by a small slide switch located near the LED power indicator. Moving this switch to the right activates the relay mode. In this mode - all channels act as switches and turn on to full intensity when the associated control console channel is set above aprox. 50 percent.

No pre-heat controls or trimmer circuits are used since the AS-40 has auto-sync circuitry

If you have older Lightronics dimmers with a mode switch - Set those dimmers to The NSI/SUNN mode to maintain compatibility.

MAINTENANCE AND REPAIR**TROUBLESHOOTING**

- Ensure that power is applied to the dimmer.
- Check that light fixtures are functional.
- Check the dimmer fuses.
- Verify settings of dimmer DIP switches
- Check the multiplex control cable (a very common source of problems).
- Check control console settings and operation.
- Check the control console for correct patching.

CONTROL CABLE WIRING

The XLR multiplex connector pins are wired as follows:

PIN #	FUNCTION
1	Common or Signal ground.
2	Low voltage power to provide power to portable consoles.
3	The multiplex control signal.

REPAIR

The only user servicable parts are externally accessible fuses. Replace ONLY with 5 Amp, fast acting, 250 volt fuses. Internal service on the unit by other than Lightronics authorized agents will void the warranty.

If service is required, contact the dealer from whom you purchased the unit or contact the Lightronics Service Dept..