LIGHTRONICS

AS42L

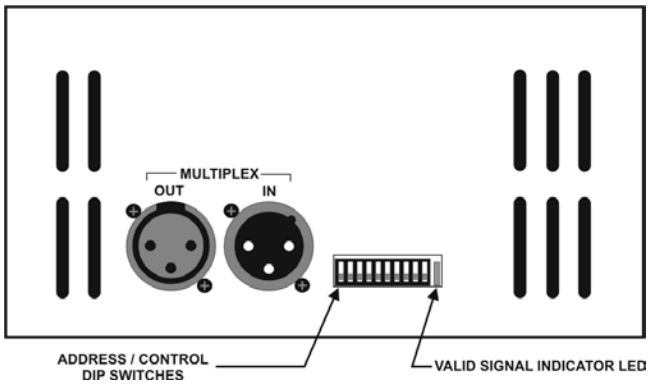
4 X 1200W COMPACT DIMMER
OWNERS MANUAL

Version 2.2
06/01/2022

DESCRIPTION

The AS42L is a compact four channel light dimmer. It has a maximum capacity of 1200 Watts per channel and a maximum total load capacity of 4800 Watts. It is supplied with two input power cord stubs which may be connected to two different 120 VAC power services. The AS42L is intended for INDOOR USE ONLY. The unit operates using the Lightronics LMX-128 multiplex protocol. The AS42L may be operated in a relay (non-dim) mode. The unit will also function as a chaser and has several preset chase patterns which may be used.

AS42L END VIEW



INSTALLATION

LOCATION: Locate the unit vertically with control signal connectors on the bottom in a well ventilated area away from moisture and heat. Two ½" holes are provided on the dimmer top cover to install a lighting bar pipe clamp and suitable safety cables.

POWER CONNECTIONS: Extending from the chassis are two 20 amp line cords for connection to two separate 120 VAC, 20 Amp grounded services. Total capacity of the AS42L is 4800 Watts.

LOAD CONNECTIONS: There are four numbered duplex outlets on the top of the unit. Each provides two connections for each of the output channels. You can connect up to 1200 Watts of lighting to each channel.

CONTROL SIGNAL CONNECTIONS:

The male three pin XLR connector on the unit end panel connects to the control console. The female connector is for connection to additional dimmers. The AS42L dimmer is compatible with the Lightronics LMX-128 and NSI/Sunn three wire multiplexed protocol. If you have older Lightronics dimmers which run in the obsolete Lightronics mode only, contact Lightronics for information on changing the mode. When using multiple dimmers, ALL dimmers MUST be in the SAME mode.

CONTROL SIGNAL WIRING:

XLR Connector Pin #	Signal Name
1	LMX Common
2	Console Power (+15Volts DC)
3	Multiplex Signal
Applies to input and output connector	

OPERATION

NORMAL MODE (Non-Chaser):

A green LED in the end panel will indicate that a valid LMX-128 control signal is applied to the unit. A DIP switch block on the end panel selects the starting channel number of the dimmer. The seven right hand switches control this function. For example, if all switch positions are down - the dimmer will respond to channels 1-4. Raising the switch on the far right will set the dimmer to respond to channels 5-8. A complete table of channel assignments is provided in this manual. You can address up to 512 channels with multiplex control.

RELAY MODE

Pairs of channels (1/2 and/or 3/4) may be switched into the relay mode. In this mode the output of these channels will be either off or full on depending on the control console channel setting. The trip point for turn on is aprox. 50%. The two left hand switches on the DIP switch block control relay mode channel selection. The UP position of the switches invokes RELAY MODE.

CHASER MODE:

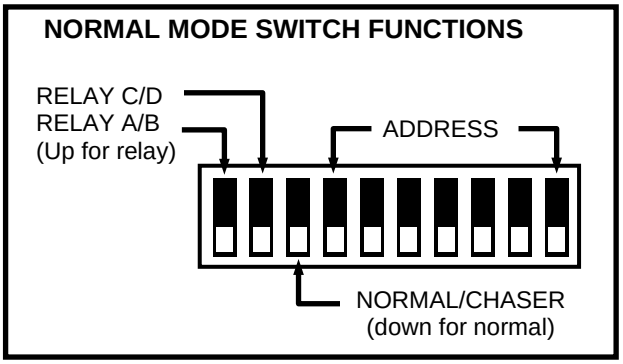
When operating in the chaser mode the AS42L becomes independent of the control console and other dimmers. The green LED indicator is OUT when in the chaser mode. Chaser mode is turned on and off by one of the DIP switches on the end of the unit. A diagram on the unit cover shows the switch settings for controlling chaser operation.

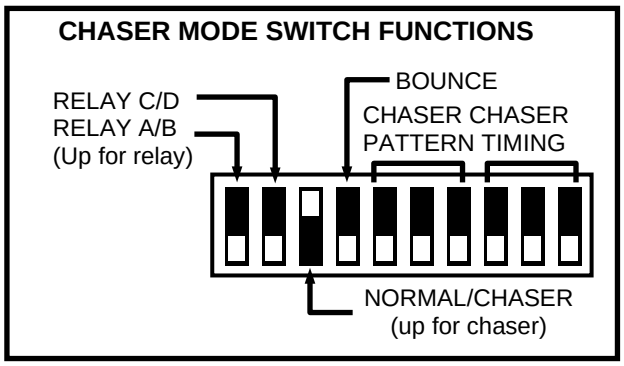
Eight different chase patterns are available. A "bounce" condition may be imposed on several of the chase patterns by setting one of the DIP

switches. The bounce condition causes the chase pattern to run in alternating directions.

The chase step time may be controlled for up to 64 seconds per step. Step fade time is proportional to the step time. If a channel is in the relay mode during chaser operation, it will "snap" on and off (zero fade time). The tables below show the details of chaser settings.

ADDRESS & CONTROL SWITCH SETTINGS





CHASER PATTERN SELECTION

SWITCHES	PATTERN
⇩⇩⇩	4 channel. sequence
⇩⇩⇧	4 channel. build
⇩⇧⇳	4 channel. build/unbuild
⇩⇧⇧	4 channel. random
⇧⇩⇩	3 channel. sequence +
⇧⇩⇧	3 channel build
⇧⇧⇩	3 channel build/unbuild
⇧⇧⇧	2 channel alternating

CHASER TIMING SELECTION

SWITCHES	STEP TIME (Duration)
⇩⇩⇩	.5 seconds
⇩⇩⇧	1.0 seconds
⇩⇧⇳	2 seconds
⇩⇧⇧	4 seconds
⇧⇩⇩	8 seconds
⇧⇩⇧	16 seconds
⇧⇧⇩	32 seconds
⇧⇧⇧	64 seconds

MAINTENANCE AND REPAIR

TROUBLESHOOTING

- Check that you have power applied to the dimmer.
- Check that all light fixtures are functional.
- Check the fuses.
- Check the control signal cable
- Check the settings of the dimmer DIP Switches
- Check the console setup for correct patching.

REPAIR

The only user serviceable parts are externally accessible fuses. Replace fuses ONLY with 10 Amp, 250VAC, fast blow 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 dimmer, or Lightronics, Service Department, 509 Central Drive, Virginia Beach, VA 23454. Tel: 757 486 3588.

WARRANTY INFORMATION AND REGISTRATION – CLICK LINK BELOW

www.lightronics.com/warranty.html

LMX CHANNEL ASSIGNMENT SETTINGS

The DIP Switch Setting column shows the positions of the DIP switches on the dimmer. The Start Channel column shows the resulting channel assignment for the first channel of the dimmer

EXAMPLE: If an LMX dimmer's DIP switches are set to ⇩⇩⇩◖⇩◖◖ then the first channel of the dimmer will respond to LMX channel 45. The remaining dimmer channels will respond to LMX channels 46, 47, 48 …etc.

DIP Switch Setting 4 5 6 7 8 9 10	Start Channel	DIP Switch Setting 4 5 6 7 8 9 10	Start Channel	DIP Switch Setting 4 5 6 7 8 9 10	Start Channel	DIP Switch Setting 4 5 6 7 8 9 10	Start Channel
⇩⇩⇩⇩⇩⇩⇩	1	⇩⇩⇩◖⇩⇩⇩	33	⇩⇩◖⇩⇩⇩⇩	65	⇩⇩◖◖⇩⇩⇩	97
⇩⇩⇩⇩⇩⇩◖	5	⇩⇩⇩◖⇩⇩◖	37	⇩⇩◖⇩⇩⇩◖	69	⇩⇩◖◖⇩⇩◖	101
⇩⇩⇩⇩⇩◖⇩	9	⇩⇩⇩◖⇩◖⇩	41	⇩⇩◖⇩⇩◖⇩	73	⇩⇩◖◖⇩◖⇩	105
⇩⇩⇩⇩⇩◖◖	13	⇩⇩⇩◖⇩◖◖	45	⇩⇩◖⇩⇩◖◖	77	⇩⇩◖◖⇩◖◖	109
⇩⇩⇩⇩◖⇩⇩	17	⇩⇩⇩◖◖⇩⇩	49	⇩⇩◖⇩◖⇩⇩	81	⇩⇩◖◖◖⇩⇩	113
⇩⇩⇩⇩◖⇩◖	21	⇩⇩⇩◖◖⇩◖	53	⇩⇩◖⇩◖⇩◖	85	⇩⇩◖◖◖⇩◖	117
⇩⇩⇩⇩◖◖⇩	25	⇩⇩⇩◖◖◖⇩	57	⇩⇩◖⇩◖◖⇩	89	⇩⇩◖◖◖◖⇩	121
⇩⇩⇩⇩◖◖◖	29	⇩⇩⇩◖◖◖◖	61	⇩⇩◖⇩◖◖◖	93	⇩⇩◖◖◖◖◖	125