

ND-46 COMPACT PORTABLE RELAY PACK

Version 2.1 02/20/2005

Page 1 of 4



IMPORTANT

Please read this manual before using the ND-46 relay pack.

DESCRIPTION

The ND-46 is a 4 channel, 2400 Watt, relay pack. Each channel has a capacity of 600 Watts. Each channel will always be either fully on or fully off depending on the setting of it's associated control console fader. There is no idle current as is found in dimmers. The unit is controlled by a multiplex signal which may be either the "NSI/SUNN" or "Lightronics LMX" protocol.

INSTALLATION

The ND-46 is designed to be mounted to a light truss or bar using a C-clamp or similar secure mounting. A safety cable must be used in conjunction with the clamp to secure the unit in the event of clamp failure. The ND-46 should be kept away from moisture and excessive heat. Please use common sense.

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.

LOAD CONNECTIONS:

There is one Edison Plug connector provided for each ND-46 output channel. They are located along the left and right edges of the unit. The markings on the cover indicate the channel numbers for each connection. The maximum capacity of each channel is 600 watts. Each output channel is protected by an externally accessible 5 Amp fuse.

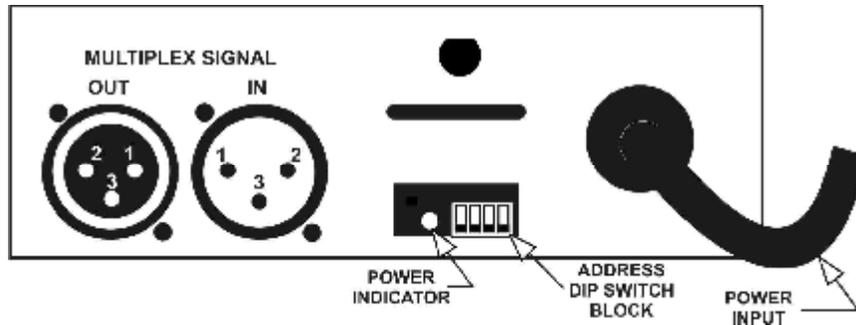
CONTROL SIGNAL CONNECTIONS:

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.

The unit normally runs in the "NSI/SUNN" mode. There are jumpers inside the unit which can be moved to cause the unit to run in the Lightronics mode. Contact Lightronics if you need to have the jumpers moved.

NOTE: When using multiple dimmers/relay packs - they MUST be ALL in the same mode.

**ND-46 COMPACT PORTABLE RELAY PACK
OWNERS MANUAL**



OPERATION

The LED near the power inlet will indicate when power is applied. The 4 power sockets (2 on each side) are the 4 output channels to be connected to the lamps.

A DIP switch block located on the end of the unit near the power inlet assigns the ND-46 relay pack to a set of four console channels. The cover of the ND-46 is labeled to indicate the switch positions and associated channel assignments. A "1" indicates a switch in the UP position.

Start Address	Switch Setting	Start Address	Switch Setting
1	òòòò	33	áòòò
5	òòòá	37	áòòá
9	òòáò	41	áòáò
13	òòáá	45	áòáá
17	òáòò	49	ááòò
21	òáòá	53	ááòá
25	òááò	57	áááò
29	òááá	61	áááá

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

MAINTENANCE AND REPAIR

CONTROL CABLE WIRING

The male and female XLR multiplex connectors 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.

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.

OWNER MAINTENANCE

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.

REPAIR

If service is required, contact the dealer from whom you purchased the unit or contact the Lightronics Service Dept. 509 Central Drive, Virginia Beach, VA 23454. Tel: 757 486 3588

Lightronics recommends that you record the serial number of your ND-46 for future reference.

SERIAL NUMBER _____



All Lightronics products are warranted for a period of TWO/FIVE YEARS from the date of purchase against defects in materials and workmanship.

This warranty is subject to the following restrictions and conditions:

- A) If service is required, you may be asked to provide proof of purchase from an authorized Lightronics dealer.
- B) The FIVE YEAR WARRANTY is only valid if the warranty card is returned to Lightronics accompanied with a copy of the original receipt of purchase within 30 DAYS of the purchase date, if not then the TWO YEAR WARRANTY applies. Warranty is valid only for the original purchaser of the unit.
- C) This warranty does not apply to damage resulting from abuse, misuse, accidents, shipping, and repairs or modifications by anyone other than an authorized Lightronics service representative.
- D) This warranty is void if the serial number is removed, altered or defaced.
- E) This warranty does not cover loss or damage, direct or indirect arising from the use or inability to use this product.
- F) Lightronics reserves the right to make any changes, modifications, or updates as deemed appropriate by Lightronics to products returned for service. Such changes may be made without prior notification to the user and without incurring any responsibility or liability for modifications or changes to equipment previously supplied. Lightronics is not responsible for supplying new equipment in accordance with any earlier specifications.
- G) This warranty is the only warranty either expressed, implied, or statutory, upon which the equipment is purchased. No representatives, dealers or any of their agents are authorized to make any warranties, guarantees, or representations other than expressly stated herein.
- H) This warranty does not cover the cost of shipping products to or from Lightronics for service.
- I) Lightronics Inc. reserves the right to make changes as deemed necessary to this warranty without prior notification.