

# Steady State, 4Ch, 1A, PAD2 4436/1 Ethernet operated

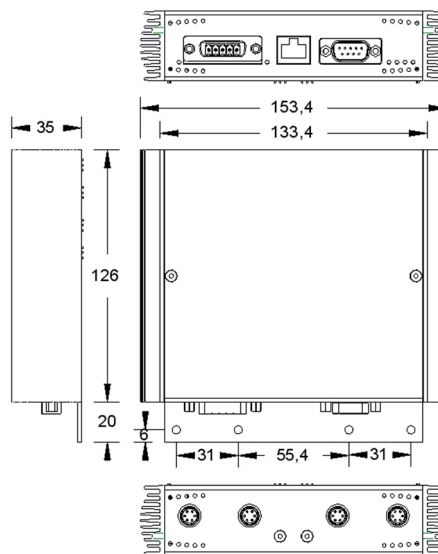
### This package consists of:

-PAD2 4436/1, Strobe control unit

-LKA1 1431 Power cable, 5m

**OPTION:** LKA1 1033T Signal cable, 5m

Specifications	
Voltage supply	24VDC (±10%)
Current requirement	max. 2,5A
Protection class	IP30
Operation temperature	0°C ....+65 °C
Storage temperature	-40°C....+80 °C
Storage humidity	max. 80%
Power output	max. 1A/channel
Light intensity	0 to 100%.
Long Flash mode	200 % intensity
Communication	Ethernet



### Warning!

**Do not connect to other than 24 V DC**


Power cable Phoenix 5-pin connector		
Red	24 VDC	Pin 5
Black	0 V	Pin 4

Signal cable 9-pin D-sub	Signal + white cable	Signal - brown cable
Channel 1	Pin 1	Pin 6
Channel 2	Pin 2	Pin 7
Channel 3	Pin 4	Pin 8
Channel 4	Pin 5	Pin 9

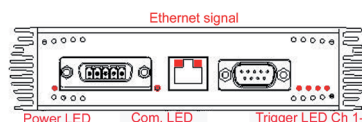
Signal input: Optical isolated  
Signal range: 5-24VDC, 20mA

### Light head connector:

Pull back the spring-loaded housing before connecting and disconnecting.

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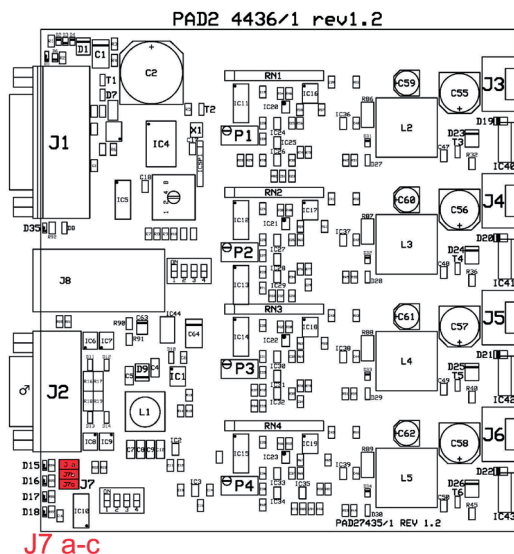
### LED indication



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### Adjustment:

Open the units by unscrewing top cover

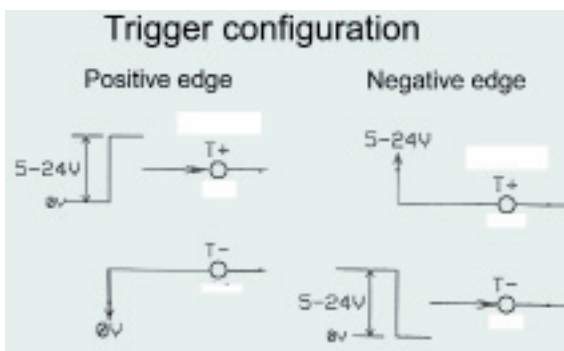


### Common signal, J7a-c.

Installing jumper J7a-c will enable channel 2-4 to be ON simultaneously using channel 1 as master channel.

### Adjustable parameters for each channel:

Light intensity	0-100%
Long flash	Signal
200% intensity	200% light



### Long flash mode.

This unit can be remotely controlled, ON/OFF, by using the long flash (LF) mode, turning ON and OFF the light by an external signal.

As long as an external signal is ON the light is ON, when the external signal is OFF the light is OFF.

### 200% light intensity.

Long flash (LF) mode enable unit to extend the light intensity to 200%.

In double intensity, 200% (DI) mode, the maximum ON-time is five seconds. After five seconds the controller automatically turns the light head OFF for five seconds.

This cooling state is indicated by flashing the Power LED.

### Ethernet interface:

Unit needs a fixed IP address. On request this can be done by LATAB prior to delivery.

To change IP address use special software "Device Installer" for the X-port; (XP101001-03R) available on [www.lantronix.com](http://www.lantronix.com).

### Factory default settings:

- IP address: 192.168.220.215 (other on request).
- Port 10001
- ON, light intensity 100%
- Normal steady state mode
- LF and DI-mode OFF

### EEC compatibility:

This product, PAD2 4236/1 follow the EG-directive for EMC-compatibility, 897336, additional 9321/EEG and 93/86//EEG

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### PAD2 4436/1 control protocol

#### All 4 channels command, 1 byte.

1) = Command (cmd):

- 00 = Lights OFF.
- 01 = Lights ON.
- 02 = Intensity, followed by intensity data data bytes 2-5.
- 03 = Long Flash (LF) mode ON\*.
- 04 = Double Intensity (DI) mode ON.
- 06 = Save settings. All settings stored in EEPROM to be recalled at power-on.

#### Single channels commands,

2 bytes except cmd 02 = 3 bytes:

1) = Command (cmd):

- 00 = Lights OFF.
- 01 = Lights ON.
- 02 = Intensity, followed by data bytes
- 03 = Long Flash (LF) mode ON\*.
- 04 = Double Intensity mode ON.
- 05 = Normal mode (External on/off =OFF)

2) = Channel ID;

01-04

3) = Intensity data - cmd 02 only:

00 - FF = 0 - 100% light intensity.

\* An external signal is required to turn on the light. The unit will NOT respond to the ON, OFF commands.

Controller to host messaging (ASCII):

- “OK” = Valid command received and executed.
- “Sx” = Start of 5 sec. light. Shut-down after 5 sec.
- “Nx” = End of 5 sec. shut-down, ready for next trigger signal.
- x = Channel ID.

#### All channels command

Example 1: (1 byte)

01 = Turn light ON, all channels

Example 2: (5 bytes)

02,FF,FF,7F,7F = Set intensity

Channel 1&2 = 100%

Channel 3&4 = 50%

Control protocol in HEX-format (comma only for byte separation and not part of command)

#### Single channels command

Example 1:

00, 01 = Turn light OFF - Channel 1.

Example 2:

02, 02, FF = Set intensity - Channel 2 = 100%.