Installation and users guide

CONTROLLER



# Strobe, 4Ch, 8A, PAD1 4432/8 Ethernet operated

#### This package consists of:

PAD1 4432/8, Strobe control unit LKA1 1431 Power cable, 5m LKA1 1033T Trigger cable, 5m For program, see www.latab.se

Specifications		
Voltage supply	24V DC(±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. 8A/channel	
Light intensity	0 to 100%.	
Strobe pulselength	50 to 1500 µsec	
Trigger frequence	max. 200Hz at 8A	
Communication	Ethernet	

#### Warning!

Do not connect to other than 24 V DC

Power cable				
Red		24 VDC		Pin 5
Black		0 V		Pin 4
Trigger cable	Trigg + white cable		Trigg- 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	

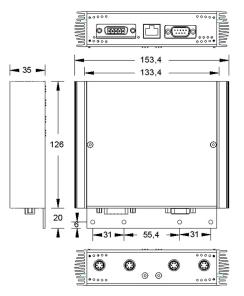
Trigger input: Optical isolated Trigger range: 5-24VDC, 20mA

#### Light head connector:

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

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# **LED** indication

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	ower LED	Com. LED	Trigger LED Ch 1-4

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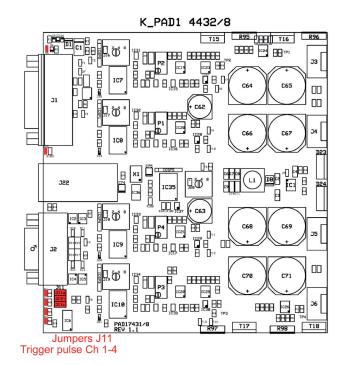
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## Adjustment:

Open the units by unscrewing top cower



#### Common trigger, J11a-c.

Installing jumper J11a-c will enable channel 2-4 to be triggered simultaneously using channel 1 as master channel.

#### Adjustable parameters for each channel:

Light Intensive	LI	0-100%
Stobe Pulse Width	SPW	50µsec-1,5msec
Trigger Delay	STD	0-38msec

Trigger delay consists of STD (0-255) multiplied with a delay factor (DF) (2-150µsec) giving a STD range of 0-38 msec.

# cower Ethernet interface:

It's recomended the unit is assigned a fixed IP address. On request the this can be done by LATAB prior to delivery. To assign/change IP addess use special soft ware "Device Installer" for the X-port; XP101001-03R available on www.lantronix. com.

### Factory default settings:

- IP address: 192.168.220.215 (other on request). Port nr: 10001

# Trigger configuration

Positive edge Negativ edge J1 DB9 5-244 J1 DB9 T+ T+ 5 245 0 0 nina T-O pin9 5-244 -O QU au

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# Industrial LED Lighting

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## PAD1 4432/8 control protocol

This program has the possibility to send either 1 channel at a time or comad for all 4 channels. The command for 1 channel is 6 bytes and the comand for all 4 channels are 14 bytes.

One channel control string (hex) are 6 bytes, to be sent in the following order: <b>1)</b> Start byte: FE. <b>2)Dummy</b> byte: 01. <b>3)</b> Channel ID 01-04
<b>4)</b> SPW/DF-byte: 00-FF. Higher nibble = SPW. Lower nibb = DF
<ul><li>5)TD-byte: 00-FF. Trigg delay</li><li>6)LI-byte: 00-FF. 0-100% light intensity</li></ul>
Example 1: FE, 00, 01, C6, 08, FF (six byte command) FE = Start byte. 01 = Dummy byte. 01 = Channel 1 C6: C = SPW = 1000 $\mu$ s. 6 = DF = 50 $\mu$ s. 08 = TD trigg delay of 8 x 50 $\mu$ s = 400 $\mu$ s. FF = LI = 100% light intensity.
Four channels control string (hex) 14 bytes to be

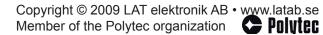
Four channels control string (hex) 14 bytes to be sent in the following order:

The first two bytesare the same follows 4,5,6 for channel 1 and then the same for channel 2,3 and 4.

Table for SPW (strobe pulse width) and DF (trigg delay factor) settings

Industrial LED Lighting

SPW higher nibble		DF lower nibble	
SPW	µsec	DF	µsec
0	50	0	2
1	100	1	5
2	150	2	10
3	200	3	20
4	250	4	30
5	300	5	40
6	400	6	50
7	500	7	60
8	600	8	70
9	700	9	80
А	800	А	90
В	900	В	100
С	1000	С	110
D	1100	D	120
E	1200	E	140
F	1500	F	150





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