

Strobe, 4Ch, 8A, PAD1 1432/8 **RS232** operated

This package consists of:

PAD1 1432/8, Strobe control unit

- LKA1 1036 Power/com. 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%
No of channels	4
Power output	Max. 8A/channel
Light intensity	0 to 100%.
Strobe pulselength	5 to 1500 µsec
Trigger frequence	max. 200Hz at 8A
Communication	RS232/485

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 2	Pin 4		Pin 8	
Channel 2	Pin 5		Pin 9	

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

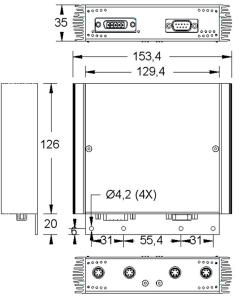
Light head connector:

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

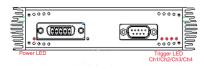
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LED indication



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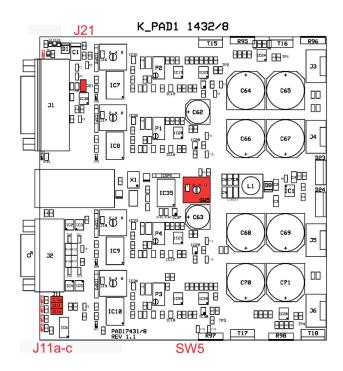
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Adjustment:

Open the units by unscrewing top cower



Adjustable parameters for each channel:

Light Intensity	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.

EMC compatibility: This product, PAD1 1131/24 follow the EG-directive for EMC-compatibility, 897336, additional 9321/EEG and 93/86//EEG

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Communication, SW5:

The communication cable PC com. port connector contains an RS232 to RS485 interface converter for safer transmission but mainly to enable so called multi drop systems with up to 8 units, in any combination of steady state and/or strobe RS232 operated controllers, connected to the same com port. Each controller is given its own ID (0-15), set by switch, SW5.

Industrial LED Lighting

The PC control software handles max. eight units, (available on www.latab.se).

Common trigger, J1a-c.

Installing jumper J1a-c will enable channel 2-4 to be triggered simultaneously using channel 1 as master channel.

Termination jumper, J21:

Termination jumper J21 shall be installed on the last unit of the multidrop system. In case of only one unit this jumper J4 shall be installed in the unit. (Preset at factory)

RS232 interface.

Connect the 9 pin D-SUB marked "COM" to the host system PC.

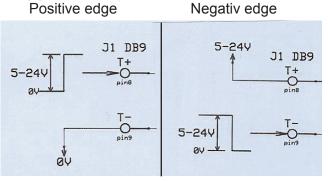
Com port setting:

19.200 baud, no parity,

8 data bits, 1 start/stop bit

Set DTR and RTS pins to pos. voltage level

Trigger configuration



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PAD1 1432/8 control protocol

This program has the possibility to send either 1 channel at a time or commad for all 4 channels. The comand 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:

1)Start byte: FE. 2)Unit ID-byte: 00-0F. Corresponding to SW1 inside the controller. 3)Channel ID 01-04 4)SPW/DF-byte: 00-FF. Higher nibble = SPW. Lower nibble = DF 00-FF. Trigg delay 5)TD-byte: 6)LI-byte: 00-FF. 0-100% light intensity Example 1: FE, 00, 01, C6, 08, FF (six byte command) FE = Start byte. 00 = Unit ID = 0.01 = Channel 1C = SPW = 1000 µs. C6:

6 = DF = 50 µs.

08 = TD trigg delay of 8 x 50µs = 400µs.

FF = LI = 100% light intensity.

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

The first two bytes are the same followed by 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 nible		DF lower nible	
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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