

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 frequency | 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 |

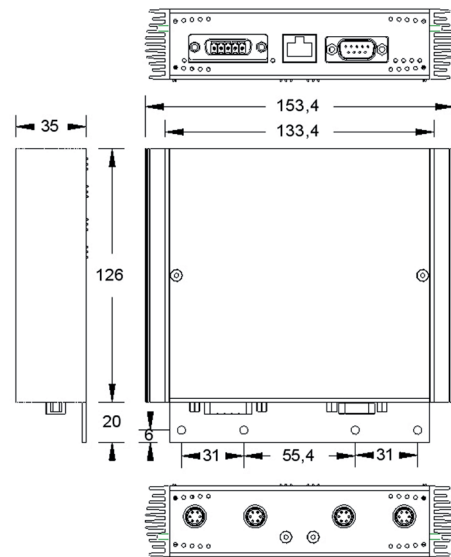
Trigger input: Optical isolated

Trigger range: 5-24VDC, 20mA

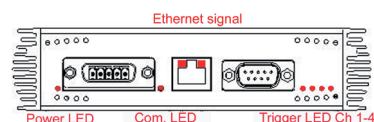
Light head connector:

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

Copyright © 2009 LAT elektronik AB • www.latab.se
Member of the Polytec organization 



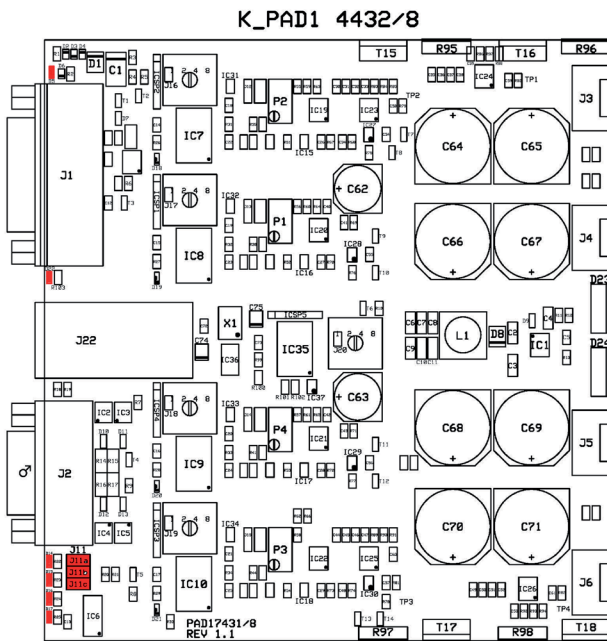
LED indication



LAT elektronik AB
Krossgatan 18
SE-162 50 Vällingby
Sweden
Phone +046 8704 9225 • e-mail: info@latab.se

Adjustment:

Open the units by unscrewing top cover



Jumpers J11
Trigger pulse Ch 1-4

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% |
| Strobe 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.

Ethernet interface:

It's recommended the unit is assigned a fixed IP address. On request this can be done by LATAB prior to delivery.

To assign/change IP address use special software "Device Installer" for the X-port; XP101001-03R available on www.lantronix.com.

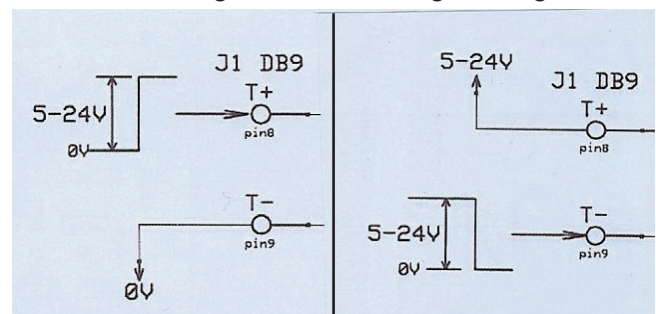
Factory default settings:

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

Trigger configuration

Positive edge

Negative edge



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:

- 1)Start byte: FE.
- 2)Dummybyte: 01.
- 3)Channel ID 01-04
- 4)SPW/DF-byte: 00-FF. Higher nibble = SPW.
Lower nibb = DF
- 5)TD-byte: 00-FF. Trigg delay
- 6)LI-byte: 00-FF. 0-100% light intensity

Example 1:

FE, 00, 01, C6, 08, FF (six byte command)

FE = Start byte.

01 = Dummy byte.

01 = Channel 1

C6: C = SPW = 1000 μ s.

6 = DF = 50 μ s.

08 = TD trigg delay of 8 x 50 μ s = 400 μ s.

FF = LI = 100% light intensity.

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

| SPW higher nibble | | DF lower nibble | |
|-------------------|-----------|-----------------|-----------|
| SPW | μ sec | DF | μ sec |
| 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 |
| A | 800 | A | 90 |
| B | 900 | B | 100 |
| C | 1000 | C | 110 |
| D | 1100 | D | 120 |
| E | 1200 | E | 140 |
| F | 1500 | F | 150 |