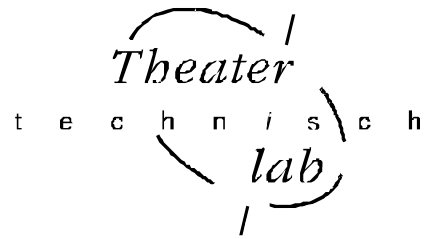


# Users Manual **DAC48-V3**

Software-release V1.0

Please read this manual carefully before you use the demultiplexer



DAC48-V3 is a 48-fold DMX512 to analogue to out convertor (voltage or current). The voltage can be trimmed internally. The default factory setting is +10V (I-load 20[mA] max.). By means of an internal jumper setting you can get negative voltage drive, internally trimmable [0,...,-10V]. See diagram at the rear of the DAC48  
By replacing the internal current limiting resistor networks 4x22[Ohm] (ref on PCB: R10 up and until R20) by resistor networks 4x27[KOhm] you get current drive, 0-370[uA].

## **Extend the drive capacity for powering LEDs**

You can use DAC48 for powering LEDs:  $I_{max} = 200[mA]$  per channel.

You have to:

- Connect the DAC48 to an external power supply ( $V = 7, \dots, 18V[V]$ ,  $I = 10[A]$  max)
- Set only jumper 1 & 5:
- Solder a wire bridge between J8 and J13
- Replace the internal current limiting resistor networks with 4x0[Ohm] (ref on PCB: R10 up and until R20).

## Operating instructions

### **Changing the DMX address**

Push button [SELECT digit]. The decimal dot of the first digit starts to blink meaning this digit can be changed by pushing the buttons [ $\ll$ ] or [ $\gg$ ]. If you push [SELECT digit] more than ones, you can select any digit. The decimal dot of a selected digit is always blinking. Changes you have made, have to be permanently stored in memory by pushing [STORE settings]  $\Rightarrow$  the blinking decimal dot disappears.

With an external power supply you can extend the drive capacity for powering LEDs

### **Changing the control Curve**

Push on [SET control curve]. The display shows X:YY, X=1,2,3(these numbers represent a particular curve) and YY=1,2,...,48(these numbers represent output channels). By pressing button [SELECT digit] you can switch between the digits. With the button [ $\ll$ ] & [ $\gg$ ] you can change the selected digit.

Curve number 1 represents NON-dim: at 50% DMX input the output level goes from zero to 100%

Curve number 2 represents LINEAR

Curve number 3 represents S-Curve

You can give each channel the same curve as channel 1 at once. Push [SET control curve]. The display shows, for example: 2:01. Select with [SELECT digit] the curve number. Change this with [ $\gg$ ] in symbol A (it follows the last curve number). Push now [STORE settings]. Now you have selected for each channel curve 2.

Note: Through a fault in the production the text 'DMXthrough' and 'DMXin' are exchanged. The placed sticker has the right indication.

**FIRST DISCONNECT THE MAINS, BEFORE YOU OPEN THE DAC48: DANGEROUS TO LIFE !!!  
INSTALLATION AND REPARATION BY QUALIFIED PROFESSIONALS.**