DMX-Merger

2x DMX IN / 1x DMX OUT

User Manual







Description

The **DMX-Merger** enables an assembly of two DMX-sources. An application takes place wherever an overall controlling with different DMX-equipment should occur. If more than two DMX-sources should fit together an series connection of several DMX-Mergers is possible. The signal runtimes will be added in this case.

The DMX-Merger add both DMX inputs together in different modes.

For ascertaining how the both inputs work on the same output it is possible to set the operating mode with a switch.

The following operating modes are available:

- LTP-Mode (Switch 6 ON; ALL OTHERS OFF) In this mode the lowest DMX-value of both input signals will be displayed at the output.
- **HTP-Mode (Switch 7 ON; ALL OTHERS OFF)** In this mode the highest DMX-value of both input signals will be displayed at the output.
- CHANGE-Mode (Switch 8 ON; ALL OTHERS OFF) In this mode the last changed DMX-value for each channel will be transmit to the output.
- **ADD-Mode (Switch 9 ON; ALL OTHERS OFF)** In this mode the both input signals will be added at the output. If the maximum value of 255 will exceeded this one will be transmitted.
- **COMBINE-Mode (Switch 10 ON)** In the fourth mode both input signals will be combined successive. At first the first one will be transferred to the output. From the channel, set with the DIP-switches 1-9 the second input signal will be attached.
- Switch universe on change (Switch 3 ON; ALL OTHERS OFF) This mode switches between the inputs depends on the last change value. The universe with the last changed value is transmit on the output.

Energy Saving Design:

Due to the modern switching technology much less warmth will be generated and the energy consumption will be lowered.

DMX-Merger MK3



Technical Data

Power supply: 7-24V DC / 200mA DMX-Inputs: 2 DMX-Inputs / 512 channels DMX-Output: 1 DMX-Output Operating modes: LTP/HTP/ADD/OFFSET/CHANGE Board dimensions: 64,2mm x 82mm

LED-Display-Codes

The integrated LED's display the current operating state. In particular the LEDs have the following function:

PWR	A DMX-signal lays at the output. The DMX-Merger operates.	
DMX1	Permanent flashing: Flashing:	A DMX-signal is deteced at input 1. No DMX-signal, maybe twisted data line.
DMX2	Permanent flashing: Flashing:	A DMX-signal is deteced at input 2. No DMX-signal, maybe twisted data line.

Furthermore events are signalled about the *PWR*-LED. In this case the LEDs lights up in shorts pitches and then turns into off modus. The Number of flashing signals is equal to the Number of the error status:

Error Status	Error	Description
2	Misconfiguration	Please check the adjusted configuration.

Connecting the DMX-Merger





Equipment

DIN rail housing 700





CE-conformity



This assembly (board) is controlled by a microprocessor and uses high frequency (8MHz). To get the characteristics of the assembly in relation to the CE-conformity, an installation in a compact metal casing is necessary.

Risk-Notes

You purchased a technical product. Conformable to the best available technology the following risks should not excluded:

Failure risk: The device can drop out partially or completely at any time without warning. To reduce the probability of a failure a redundant system structure is necessary.

Initiation risk: For the installation of the board, the board must be connected and adjusted to foreign components according to the device paperwork. This work can only be done by qualified personnel, which read the full device paperwork and understand it.

Operating risk: The Change or the operation under special conditions of the installed systems/components could as well as hidden defects cause to breakdown within the running time.

Misusage risk: Any nonstandard use could cause incalculable risks and is not allowed.

Warning: It is not allowed to use the device in an operation, where the safety of persons depend on this device.



DMX4ALL GmbH Reiterweg 2A D-44869 Bochum Germany

© Copyright 2012 DMX4ALL GmbH All rights reserve. No part of this manual may be reproduced in any form (photocopy, pressure, microfilm or in another procedure) without written permission or processed, multiplied or spread using electronic systems.

All information contained in this manual was arranged with largest care and after best knowledge. Nevertheless errors are to be excluded not completely. For this reason I see myself compelled to point out that I can take over neither a warranty nor the legal responsibility or any adhesion for consequences, which decrease/go back to incorrect data. This document does not contain assured characteristics. The guidance and the characteristics can be changed at any time and without previous announcement.