

DOUG FLEENOR DESIGN

DMX512 Regenerator

model: DMX2DMX
technical data sheet



The DMX512 regenerator addresses issues associated with non-compliant DMX devices. Many lighting devices claim to accept DMX512 signals, but are unable to support the wide variety of timing parameters allowed by the DMX512 standard. The result is flickering, flashing, or erratic operation. The DMX regenerator addresses these issues by receiving

any DMX512 signal, buffering the data, and then re-transmitting the data under a well-defined set of timing rules. In addition to this, the input is fully opto-isolated to provide protection and break potential ground loops.

We have found that most non-compliant devices can operate with a relaxed set of timing parameters. The output timing characteristics of the DMX regenerator are shown below:

Break time:	242 us	Mark after break time:	100 us
Number of slots:	512	Inter-byte time:	40 us
Mark before break time:	12 us	Refresh rate:	23 Hz

Alternate output timing characteristics can be factory configured to allow operation with nearly any device you might encounter.

The DMX regenerator has indicators for power, input signal, and a "MIMIC 1" LED which shows the level of the incoming DMX channel 1. This is useful for system troubleshooting and diagnostics. If you would like assistance in your application, please give us a call. We like to talk with our customers.

SPECIFICATIONS: All specifications meet or exceed DMX512 requirements

Input circuit:	EIA-485 receiver with 120 ohm termination resistor between +Data and -Data
Input signal:	0.2 volts minimum, 12 volts maximum
Output circuit:	EIA-485 driver
Connectors:	Gold plated 5 pin Neutrik D-1 Series (3 pin connectors or terminal blocks optional)
Input to output delay:	1/100 second average, 1/50 second maximum
Power input:	100 - 120 volts, 50/60 hertz, 12 watts (208 - 240 volt optional)
Color:	Top, bottom and sides: Silver hammer tone Front and back: Black
Size:	6.5" deep, 1.7" high, 6.5" wide
Weight:	2.6 pounds
Rack mount option:	For rack mounting, use optional rack kit model RK6-1

Doug Fleenor Design, Inc.

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Limited Manufacturer's Warranty

Products manufactured by Doug Fleenor Design (DFD) carry a five-year parts and labor warranty against manufacturing defects. It is the customer's responsibility to return the product to DFD at the customer's expense. If covered under warranty, DFD will repair the unit and pay for return ground shipping. If a trip is necessary to the customer's site to solve a problem, the expenses of the trip must be paid by the customer.

This warranty covers manufacturing defects. It does not cover damage due to abuse, misuse, negligence, accident, alteration, or repair by other than by Doug Fleenor Design.

Most non-warranty repairs are made for a fixed \$50.00 fee, plus shipping.

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