

DOUG FLEENOR DESIGN

96 Channel DMX512 to 0-10 Volt Analog Converter

model: DMX96ANL
technical data sheet



The DMX to Analog Converter decodes 96 consecutive DMX512 channels to 0-10 volt output. The starting address is selected by an easy to read (and set) three

digit push-wheel switch. The switch is mounted on the front panel along with indicators for power, signal, and an output 1 mimic. The DMX in and through connectors and the four female DB-25 output connectors are located on the back panel. All connectors feature gold plated contacts. The output pinouts are easy to remember with the pin number equaling the output number, pin 25 being common. The DMX512 input is optically isolated from the outputs and is protected against miswiring up to 120 volts. The (defeatable) hold feature holds the last look indefinitely upon loss of DMX. A test feature brings any output to full by setting the front panel switch to 601 - 696.

SPECIFICATIONS: Input specifications meet or exceed DMX512/1990.

Input baud:	DMX512: 250 Kb/s, CMX: 152.6 Kb/s
Input circuit:	EIA-485 receiver with series 100 ohm PTC self resetting "fuses" clamped to +/- 7 volts by four low capacitance <i>transorb</i> diodes
Input signal:	0.5 volts minimum, 12 volts maximum Input can withstand up to 120 volts without damage, transients up to 5KV
Output circuit:	LM6134 quad op amp configured to source or sink current. Optional 1N4004 series diodes for current sourcing-only applications.
Output signal:	0 to 10.1 volts positive DC into 2000 ohm load Outputs <u>cannot</u> withstand high negative voltages
Max. output current:	10 mA per output, 120 mA total all outputs (360 mA total on 96 out version)
Input/output isolation:	Greater than 500 volts
Throughput delay:	Less than .005 seconds (DMX input change to analog output change)
DMX512 connectors:	Two gold plated 5 pin Neutrik D-1 Series (male input, female pass through) (All five pins are wired on the pass through)
Analog connector:	Female DB-25 with gold plated pins Pin number equals output number, pin 25 is output common For output connectors 2 - 4, add 24, 48, or 72 to pin number
Power input:	90 - 125 volts, 50/60 hertz, 10 watts (180 - 250 volts optional)
Color:	Silver anodized aluminum
Size and Weight:	1.7"H x 8.0"D x 16.7"W, 4.5 pounds (19" adapter available)

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DMX512 to 0-10 Volt Analog Converter - Selected Features

The following information is provided to assist you in determining if the DMX512 to 0-10 Volt Analog Converter will be of benefit in your installation. If you have any questions, please feel free to call, write, or FAX us.

FEATURE	BENEFIT
Input is electrically isolated from output.	Console (and other DMX512 equipment) is protected from failed dimmers (or other equipment) on the analog side of the converter. Ground loops are broken. Troubleshooting is simplified.
Input is protected by <i>transorb</i> diodes	The converter can withstand <u>very</u> high transient voltages without damage.
Input has self resetting "fuses".	Input can withstand up to 120 volts on the DMX line without damage.
Outputs are current limited.	Outputs can withstand short circuits without damage.
Outputs are diode protected.	Output can withstand high positive voltages without damage. Outputs can be "piled-on" with other diode protected analog controllers.
Output circuits are socketed.	High negative voltages on outputs may damage the output circuit. Output circuits (LM324) are readily available at electronic stores and can be replaced without soldering.
DMX starting address is a decimal switch.	No need to learn binary dip switch settings.
Address switch is on the front panel.	Starting address is easily visible and easily selected.
Input and output pinouts are printed on the converter.	Assists in proper control wiring.
Gold plated Neutrik 5 pin connectors.	Assures reliable connections.
All integrated circuits are socketed.	Eases field service.
Uses 2500 Volt optical coupler.	Easily isolates line voltage failures. Usually withstands electrical storm damage.
15 mA drive current.	Reliably drives long control cables.
Power, input, and output indicators.	Simplifies system troubleshooting. Reports blown fuses.
In the lighting industry since 1979.	We'll be here if you need us.

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.