

DOUG FLEENOR DESIGN

RS-232 to DMX Interface

model: 2322DMX
technical data sheet



The RS-232 to DMX interface allows advanced A/V control systems and computers to operate standard DMX512 devices such as dimmers and moving lights. It can also be used to allow an RS-232 based control system to receive DMX512 data. The RS-232 protocol used for this communication is made up of simple ASCII strings sent or received at 9600 baud. The

interface can set and fade DMX channels to specific levels. It can also record and play 20 presets, each with individual fade times. The interface can be used to capture incoming levels produced by an outside DMX source. Other commands available include support for remote preset selection panels (using our Preset 10), monitoring of DMX channel levels, selection of DMX input or output modes, and downloading of new software. All options and presets are held in the non-volatile memory.

The DMX port is fully opto-isolated to avoid ground loop problems and to help protect equipment. The RS-232 port appears on the front panel as a standard DB-9 connector. Another RS-232 port is available on the rear panel through a 3 pin female XLR connector. Only one of these connections can be used at a time. For simple operation, the Windows Hyperterminal program can be used to communicate with the interface. The RS232 to DMX interface is backed by our standard 5 year warranty.

SPECIFICATIONS:

DMX data rate:	250 Kb/s
DMX circuit:	ESD protected EIA-485 transceiver (LT1785)
DMX signal:	Fully opto-isolated, bi-directional
DMX connectors:	Gold plated male 5 pin XLR (Neutrik D-1 series). Gold plated female 5 pin XLR (Neutrik D-1 series). All pins wired through. Pin 1 = common, Pin 2 = Data-, Pin 3 = Data+.
RS-232 data rate:	9600 bps, 8 data bits, 1 start bit, 1 stop bit, no parity
RS-232 circuit:	RS-232 driver (MAX232) Outputs are short circuit protected but not over voltage protected.
RS-232 signal:	RS-232 driver yields an approximate +/- 10 volt signal
RS-232 connector:	DB9 (male) Pin 2 = receive, Pin 3 = transmit, Pin 5 = common, Pin 7 = RTS, Pin 8 = CTS (DB9 Female to Female, null modem cable provided) Gold plated female 3 pin XLR (Neutrik D-1 series). Pin 1 = common, Pin 2 = receive, Pin 3 = transmit.
User interface:	Start address set via a three digit thumbwheel switch
Indicators:	Red power LED, Green DMX signal LED, Green MIMIC LED
Power input:	100 - 120 volts, 50/60 hertz, 12 watts (208-240 volt optional)
Color:	Silver hammertone with black front and back panels
Size and weight:	1.7"H x 6.5"D x 8.25"W, 3.3 pounds (19" rack kits available)

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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