Rail-Demux User Guide

(Version 2.3)

DMX512 to analogue conversion has two key applications: Upgrading older analogue dimmers and driving fluorescent ballasts fitted with 0-10V control facility.

Rail-Demux is an elegant solution to both applications and provides 16 analogue outputs with DMX512 and RDM (Remote Device Management) Draft V1.0 support. It is housed in a high impact DIN Rail mounting case.

The control interface is DMX512 (all standards) and RDM (Remote Device Management) Draft V1.0. All parameters including start address are set using RDM. This can be done using any of the following products: Jump-Start & Net-Lynx O/P or Ether-Lynx via an Art-Net network. For more information see App Note 36 & 39 at **www.ArtisticLicence.com**

Specification:

Input Voltage:	24V DC
Maximum Current:	1.5A
Output Voltage:	0-10V DC 4mA (option for 0-370uA Output)
Internal Fuse:	2A Slow Blow 20mm
Duty Cycle:	100%
Dimensions:	W:88 H:90 D:58mm
Mounting:	DIN Rail or surface mount
IP:	Indoor use only
Listings:	CE, FCC
Max Wire Size:	$2.5mm^2$

Power Supply Options: (order separately)

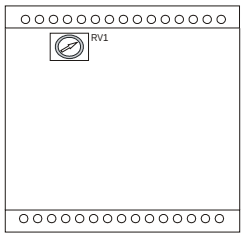
PSU-24-2-FER

Output:	24V 2A
Input:	Auto-sensing
Power:	48W
Listing:	CE / FCC / UL / PSE

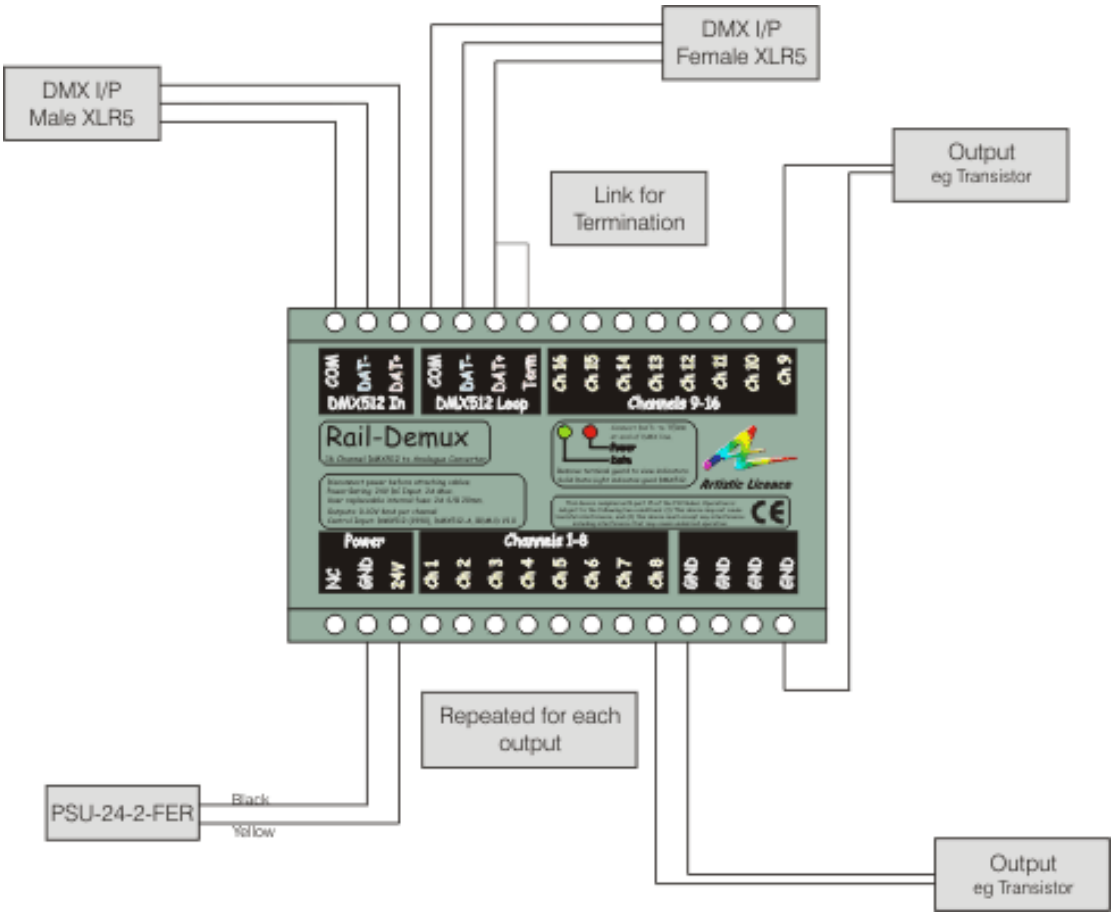
PSU-24-5-FER

Output:	24V 5A
Input:	Auto-sensing
Power:	120W
Listing:	CE / FCC / UL / PSE

Rail-Demux Operation:

0 to 10V Output	To adjust or calibrate the output of the Rail-Demux, use the following procedure: ❑ Disconnect the power supply ❑ Gently remove the lid of the DIN rail unit ❑ Locate RV1. This is the calibration resistor. This will allow you to decrease or increase the output voltage range ❑ Replace lid and reconnect to the power supply 
0 to 370uA Output	This option is only possible by returning the unit to Artistic Licence. Once modification has been made you can calibrate the unit using the procedure above.
Note	Ensure that you are grounded before touching any internal components. You can achieve this by either wearing an anti-static wristband or by touching an earthed metal surface at regular intervals.

Rail-Demux Wiring Diagram:

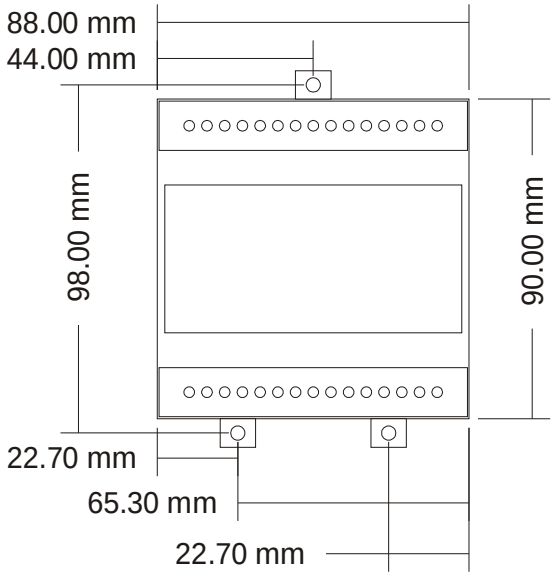


DMX512 Wiring:

XLR Pin (Convention)	Rail-Demux Terminals	Function	Colour
1	GND	Ground	Black
2	DAT-	Data -	Blue
3	DAT+	Data +	Red
4		No Connection	
5		No Connection	

DIN Rail Surface Mounting:

To use the surface mount option push the three bottom tabs out until they click into place. We recommend using an M4 Pan head screw.



Note: *It is recommended that wires from the PSU to the Rail-Demux have a ferrite core, or similar suppression device, fitted. This should be located close to the Rail-Demux.*

CE Compliance

Rail-Demux is CE compliant when installed in a shielded and earthed metal case

The DIN Rail Range:

- Rail-Split RDM – A fully bi-directional six channel DMX512 splitter and distribution amplifier
- Rail-Pipe – A six channel intelligent power supply / low voltage dimmer
- Rail-Switch – Provides six mains voltage relays with DMX512 and RDM Draft V1.0 support
- Rail-Demux – Provides 16 DMX512 to analogue outputs and RDM Draft V1.0 support
- Rail-Tran – Provides six Darlington transistor outputs, operation to 50V DC at 450mA, product total 750mA
- Rail-DALI – A 256 channel bi-directional DMX / DALI interface
- Rail-Patch – A DIN Rail mounted patch panel for a 5pin XLR to screw terminal connection
- Rail-PSU-D4 – A four circuit DALI Bus PSU
- CP12 – An LED dimmer designed to control high power LED devices
- Net-Pipe – A high power Ethernet controlled LED dimmer

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