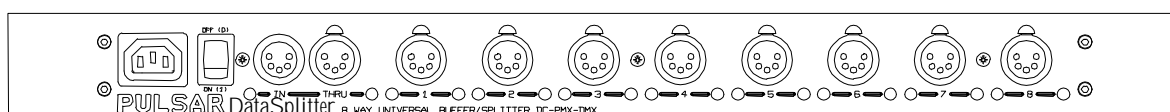
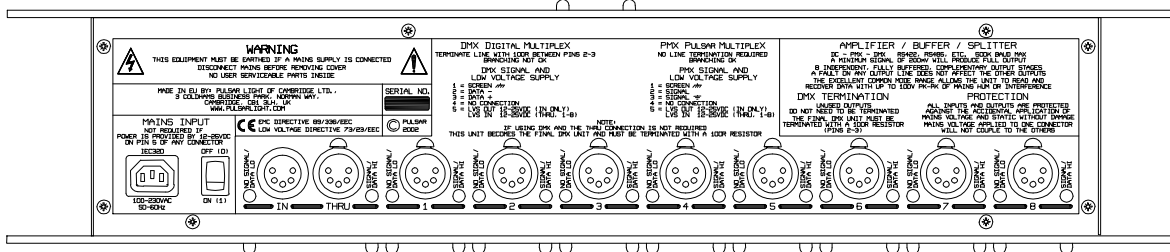
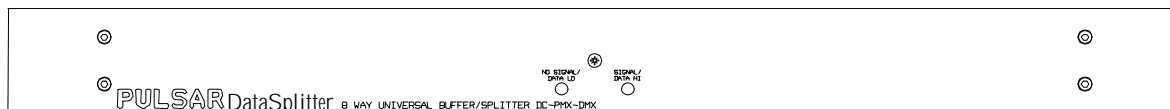


DATASPLITTER



INTRODUCTION

DATASPLITTER - 8 Way Universal Buffer/Splitter DC-PMX-DMX

The DataSplitter is an 8 Way Universal Buffer/Splitter for DC, PMX (Pulsar Multiplex) and DMX (Digital Multiplex) making it suitable for RS232, DMX512 and RS485 protocols. An input THRU socket for connection to other devices or further DataSplitters is provided.

All 5 pin XLR inputs and outputs are protected against accidental application of mains voltages and static. All outputs are fully buffered, which means a fault on any output line will not affect the other outputs.

The DataSplitter may be powered by a mains connection of between 100 and 230Vac. Alternatively, the unit may be powered by a Low Voltage Supply of +12...25Vdc to pin 5 of any of the 5 pin XLRs except IN.

The input and outputs have LED indicators, enabling the user to check the status of the input and all outputs.

The DataSplitter has been designed with two front panels to allow the unit to be rack mounted as a touring version (all inputs and outputs to front for ease of connectivity), or as an installed version (all inputs and outputs to rear to give an uncluttered front).

The DataSplitter may also be truss mounted using the M10 nutserts fitted to the base.

MAINS OPERATION

This section is applicable if a Low Voltage Supply of +12...25Vdc @ 100mA is not available on pin 5 of the THRU or any output XLR socket.



SERVICE AND REPAIR must only be carried out by suitably skilled and competent persons. There are no user serviceable parts inside. Where a mains connection is used, the DataSplitter must be connected in accordance with current local and national wiring regulations. If the DataSplitter is not installed or operated according to this instruction leaflet then the protection provided by the DataSplitter may be impaired.

WARNING - THIS APPLIANCE MUST BE EARTHED

IEC320 Mains Inlet Connector Voltage: 100 - 230Vac +/-10%, single phase. There is no voltage selector - the electronics automatically adjusts to the incoming voltage.

Mains Frequency: 48-62Hz

Power Consumption: The DataSplitter consumes less than 10W.

Fusing: A self-resetting solid state fuse is incorporated for minimal maintenance.

Electronics On/Off switch with built in indicator neon controls the mains power to the unit.

LOW VOLTAGE OPERATION

A Low Voltage Supply of +12...25Vdc @ 100mA is required if a mains connection is not available. This supply can be connected to pin 5 of the THRU or OUTPUT 1-8 XLRs.

This supply could come, for example, from a Pulsar Dimmer/Switching Pack or a Clay Paky Projector

Note: a Low Voltage Supply output is available on pin 5 of the IN XLR to power other equipment.

LOW VOLTAGE SUPPLY AND DIGITAL CONNECTIONS

are made by using the 5 pin XLR sockets provided.

The connections are indicated on the lid and are:

PMX SIGNAL AND LV SUPPLY DMX SIGNAL AND LV SUPPLY

Pin 1 = Chassis Earth - Screen	Pin 1 = Chassis Earth - Screen
Pin 2 = Signal	Pin 2 = Signal -
Pin 3 = Signal Earth	Pin 3 = Signal +
Pin 4 = no connection	Pin 4 = no connection
Pin 5 = Low Voltage Supply Out IN XLR only	Pin 5 = Low Voltage Supply Out IN XLR only
Pin 5 = Low Voltage Supply In THRU and 1-8 XLRs	Pin 5 = Low Voltage Supply In THRU and 1-8 XLRs

Note:

- Pins 4 and 5 are occasionally used by other manufacturers for data. We recommend the use of 2 core plus screen cable, leaving pins 4 and 5 open circuit, to connect to this type of equipment. However, the Low Voltage Supply, +12...25Vdc on pin 5 of the IN XLR connector is current limited to cause no harm to such equipment.



Installation

LEDs AND TERMINATION

LEDs: The **RED** LEDs show when there is no signal or data is Lo. The **GREEN** LEDs show when there is a signal or data is Hi. Typically both red and green LEDs will be on, indicating a digital data stream.

Note: illuminated LEDs do not mean that the data is valid; they show its presence. Errors can often occur if the DMX line is not terminated.

The end of the DMX line(s) must always be terminated with a 100Ω resistor connected between signal+ and signal-, this resistor can conveniently be mounted in a 5 pin XLR plug which should be inserted in the last unit on the DMX line(s).

The Thru and each of the output lines 1-8 need terminating.

DMX line terminating plugs are available from Pulsar, Product No. 21750.4

Unlike DMX, PMX may be branched and needs no termination.

OTHER INFORMATION

TRUSS MOUNTING Two M10 nutserts are provided in the base of the DataSplitter. The maximum thread depth from panel to bottom of nutsert is 25mm. Select a suitable length M10 bolt to attach the hangers to the DataSplitter and attach the hangers to the truss. A safety chain may be attached to one of the rack mounting holes.

PORTABLE APPLIANCE TESTING - The DataSplitter may be safely Earth Bond and Insulation Tested (500V).

STANDARDS - The DataSplitter complies with the following International and National Standards:

Electrical Safety - IEC65, EN60065, BS415

EMC - EN50081-1, EN50014, EN55022, EN50082-1

Rack Mounting - IEC297

Index of Protection - IP20



Marking Directive 93/68/EEC - The **DATASPLITTER** meets both the EMC Directive 89/336/EEC and the Low Voltage Directive 73/23/EEC.

GUARANTEE Your DataSplitter is guaranteed for a period of 12 months from the date of original purchase. The guarantee is limited to parts and labour. The guarantee is void if the unit is misused or unauthorised persons perform repairs. In the unlikely event of a fault occurring in the DataSplitter do not use without repair. Return the unit, with a description of the fault, to your supplier or direct to Pulsar for immediate attention.

ACCESSORIES

The Pulsar **DataSplitter** has been designed to work with and complement the following products. Please contact us to receive further details of these superb products!

Digital Control

Product No.	Controller
20054	Minipiece 54 Control Desk
23000/.1	48/96 Channel Masterpiece Control Desk
24000	108 Channel Masterpiece Control Desk
20216	216 Channel Masterpiece Control Desk
27216	Masterpiece Replay Unit 216

Control Desks

Product No.	Controller
23930	18 Channel 1 Preset Analogue/DMX Desk/Tester
23940	12 Channel 2 Preset Manual Desk with DMX
23950	18 Channel 2 Preset Manual Desk with DMX
62014	18 Channel DMX Board

Signal Processing

Product No.	Controller
27770	6 Channel PMX/DMX – 0-10V Interface
27350	18 Channel Universal Interface
27300	36 Channel Universal Interface
27400	18 Channel Switching Interface

Rackpaks and Datapaks

A range of dimming, and switching, packs for control of up to 20A per channel.

ChromaRange

Product No.	Controller
24500	ChromaZone 12 Way Controller for ChromaRange

Cables

Product No.	Cable
21750.4	DMX Line Terminator Plug
21755.1	2m DMX Ext. Lead - 5 core (1 XLR-5 Plug, 1 Skt)
21755.2	5m DMX Ext. Lead - 5 core (1 XLR-5 Plug, 1 Skt)
21755.3	10m DMX Ext. Lead - 5 core (1 XLR-5 Plug, 1 Skt)

DIMENSIONS AND WEIGHTS

Code	Unit	Width	Height	Depth	Weight
		mm	mm	mm	kg
DataSplitter	8 Way Universal Buffer/Splitter	486	44.5	110	1