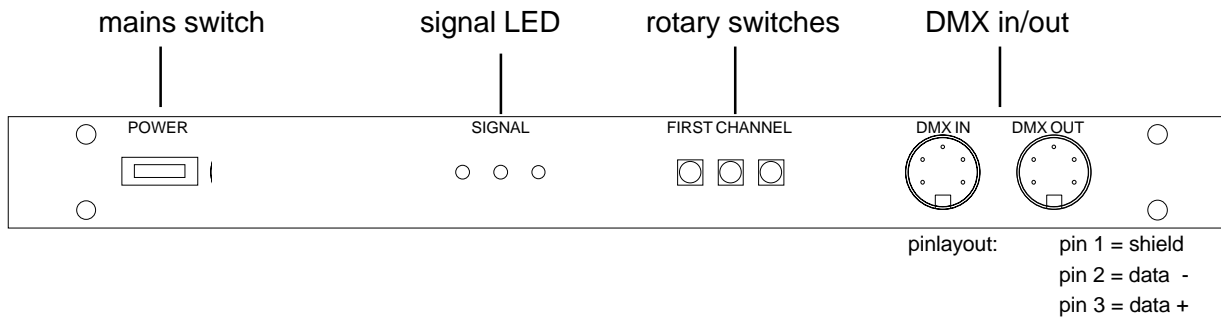


MA DMX Demultiplexer 30/60 Box

MA DEMULTIPLEXER decode USITT DMX 512 (1990) signals.
Two versions with either 30 or 60 analog outputs are available with 230 V or 110 V circuitry.

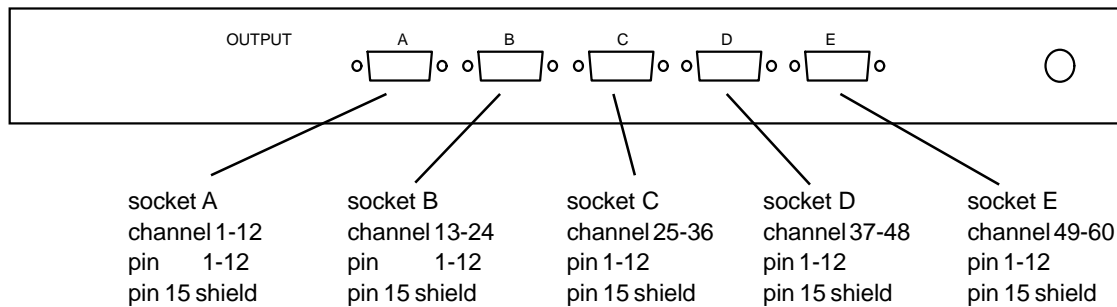
FRONT PANEL



Features:

DMX IN:	Optically isolated DMX input; overvoltage protected
DMX OUT:	Link to other DMX equipment; unit independent, direct through
FIRST CHANNEL:	First channel to be decoded, setting via rotary switches
SIGNAL IN:	LED indicates an incoming signal
SIGNAL OK:	LED indicates valid data receipt
SIGNAL DISABLED:	Rotary switch setting 800-999, LED indicates disabled analog outputs
OUTPUTS:	Analog outputs at 15pol SUB-D sockets Diode protected outputs enable parallel operation Short circuit and overload proof

BACKPANEL:



INSTALLATION INSTRUCTIONS:

Connect the MA DEMULTIPLEXER to your equipment.

> NOTE: Pin7-12 at socket "C" are not wired in the 30 channel version.

Set rotary switches to the appropriate channel number, e.g. 0-0-1: Channels no. 1-60 are transmitted

Connect unit to your DMX source (e.g. lighting consoles etc.)

If all connections are correct, the "SIGNAL OK" and "SIGNAL IN" LEDs will light.

> NOTE: Brightness of SIGNAL IN LED is dependent on incoming signal strength.

> RECOMMENDATION: If the unit is the last DMX receiver in the chain, the data line should be terminated with an end-up resistor (appr. 470 ohms) between pins 2 and 3 of the DMX output connector.

— THE UNIT IS NOW READY FOR USE —

ERROR HANDLING:

Check fuse if the demultiplexer fails to function.

Under normal operation conditions, the "SIGNAL OK" and "SIGNAL IN" LED's will light.

ERRORS may be caused by:

- Contact problems with cables and connectors
- Short circuit and/or substituted pinlayout
- Lack of shield, lacking data line
- Lack of termination resistor
- Wrong cable or extreme length of cable

> NOTE: In case of unit failure, "DMX THRU" will still function!

> NOTE: Faults will be detected quickly and easily using a **MA DMX QUICK TESTER**.

TECHNICAL DATA:

MAINS SUPPLY	230VAC / 50Hz or 110VAC / 60Hz factory setting
SIGNAL INPUT	USITT DMX 512 (1990) via 5pol XLR (male) Pin layout: Pin 1 = shield, Pin 2 = data-, Pin 3 = data+
ANALOG OUTPUT	0 to +10 VDC, max. 8mA; 15pol SUB D socket
UNIT DIMENSIONS:	19 inch (483mm), 1U (44,5mm) W x H x D (mm): 435 x 40 x 150
WEIGHT	6,5 lbs (3,0 kg)

Made in Germany

Safety Instructions:

1. Read all the instructions in the user's manual.
2. Keep the user's manual for later use.
3. Follow all the instructions on the unit.
4. Pull the plug before cleaning the unit; don't use any liquid or spray cleaner. Clean with a damp cloth.
5. Don't use the unit near water.
6. Don't put the unit on unstable tables etc.. It might fall down and get damaged.
7. There are slots in the case for aeration; don't cover these slots up because they guarantee the reliable use of the unit and protect it against overheating. Don't install the unit into a frame unless sufficient aeration is guaranteed.
8. The unit is provided with a safety plug. This plug can only be used with safety sockets. These safety measures should by all means be followed. In case the plug doesn't fit into the socket (e.g. with old sockets), the socket should be replaced by an electrician.
9. Don't put any objects on the wire and make sure nobody steps on it.
10. In case you use an extension wire make sure the sum of the power consumption of the connected units does not exceed the maximum power of the wire. The sum of the units plugged in the socket should not exceed 10 Ampere.
11. Don't spill any liquid over the unit. Don't put any objects through the slots of the unit, as these might get in contact with parts that are live or might cause short circuits. This may cause fires and shocks.
12. Don't service the unit yourself as parts that are live might be exposed when you open the case; you run the risk of getting shocked. All services should only be carried out by a specialist.
13. If one of the following conditions occurs, please pull the plug out and call the service:
 - A. Wire or plug is damaged or worn.
 - B. Liquid got into the unit.
 - C. The unit was exposed to rain or got damp.
 - D. The unit doesn't work properly even if you follow the instructions of the user's manual.
 - E. The unit fell down and the case was damaged.
14. Only use wires which are marked safety proof.
15. Don't use any high-power walkie-talkies near the unit.

DECLARATION OF CONFORMITY according to guide lines 89/336 EWG and 92/31 EWG:

Name of producer: MA Lighting Technology GmbH
Address of producer: Höhenweg 6 D-97249 Eisingen
declares that the product
Name of product: MA Demultiplexer 30 and 60Channel
Type: MA Dux 30/60 Box
answers the following product specifications:
Safety: EN60065, VDE0860, IEC65
EMV (EMC): prEN55103-1 (E1), EN50081-1
prEN55103-2 (E2), EN50082-1

Additional informations: All DMX512 and analogue inputs and outputs must be shielded. The shielding of the DMX cable must be connected to the ground, the analogue output to the case of the corresponding plug.

Eisingen, 17.01.1995

Dipl. Ing. Michael Adenau