



MPA1-BA
Audio Monitoring
Unit

Handbook

TSL
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676299



EC DECLARATION OF CONFORMITY

Application of Council Directives Nos:
EC Low Voltage Directive (73/23/EEC)(OJ L76 26.3.73)(LVD).
Amendment: (93/68/EEC) (OJ L220 30.8.93).
Conformity Standards Declared:
EN 60950
EMC Directive: 89/336/EEC, Amended 92/31/EEC.
Conformity Standards Declared:
EN 50081-1: 1992- EMC- Generic Emissions, Part 1.
EN 50082-1: 1997- EMC- Generic Immunity, Part 1.
EN61000-3-2: 1995- Current Harmonic Emissions.
EN61000-3-3: 1995- Voltage Fluctuations & Flicker.

Manufacturer's Name: Television Systems Ltd
Manufacturer's Address: Vanwall Road
Maidenhead SL6 4UB
England
United Kingdom

Type of Equipment: Powered Loudspeaker Unit

Model No: MPA1-BA

Part Number: TSLP- MPA1-BA

Date CE Mark Affixed: 4/2/08

I, the undersigned, declare that the equipment specified above conforms to the quoted Directives and Standards.

Place: Maidenhead, England

Signature: _____

Date: _____

Print: R CHAMBERS

Position: PRODUCT MANAGER

Installation.

Unless otherwise stated TSL equipment may be installed at any angle or position within an operating temperature range of 5° - 30° C .

All TSL equipment conforms to the EC Low Voltage Directive:

EC Low Voltage Directive (73/23/EEC)(OJ L76 26.3.73)(LVD).
Amendment: (93/68/EEC) (OJ L220 30.8.93).

In all cases the chassis of the equipment must be earthed on installation.

The external power supply provided with this product may be one of two types:

1. A Class 2 double insulated type with a 'figure of eight' mains input connector.
2. A Class or Level 3 type with an IEC mains input connector. This type offers a functional earth and **NOT A SAFETY EARTH** via the earth pin of the IEC mains input connector to the outer of the of the co axial power connector.

All metal panels are bonded together.

The supplied PSU is of a universal voltage type and does not have an accessible fuse. The PSU may be mounted in a bracket attached to the rear panel.

WARRANTY, MAINTENANCE AND REPAIR

All TSL equipment is guaranteed for one year from the date of delivery to the customer's premises. If the equipment is to be stored for a significant period, please contact TSL concerning a possible extended warranty period.

Failure during warranty

If any TSL product should fail or become faulty within the warranty period, first please check the PSU and wiring.

All maintenance work must be carried out by trained and competent personnel.

If equipment has to be returned to TSL for repair, please observe the following overleaf:

TSL Returns Procedure

Please telephone +44 (0)1628 676200 (Fax: +44 (0)1682 676299) and ask for Sales who will provide a Returns Number. This will enable us to track the unit effectively and will provide some information prior to the unit arriving.

For each item, this unique Returns Number must be included with the Fault Report sent with the unit.

A contact name and telephone number are also required with the Fault Report sent with the unit.

Fault report details required.

- Company:
- Name:
- Address:
- Contact Name:
- Telephone No:
- Returns Number:
- Symptoms of the fault (to include switch setting positions, input signals etc):

Packing

Please ensure that the unit is well packed as all mechanical damage is chargeable. TSL recommends that you insure your equipment for transit damage.

The original packaging, when available, should always be used when returning equipment..

If returned equipment is received in a damaged condition, the damage should be reported both to TSL and the carrier immediately.

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1.0 Introduction

The MPA1-BA is a 1RU x 200mm deep audio monitoring unit with two switched analogue inputs and intended for use as a close field monitor.

The following features are standard:

- Two switch selectable stereo analogue inputs.
- Headphone output with automatic loudspeaker muting.
- Two 26 segment bargraphs.
- UK PPM / EBU PPM scales
- Phase indication.

2.0 Front Panel Controls

2.1 Volume Control

Allows the loudspeaker or headphone volume to be varied.

2.2 Input Selection, rotary switch

- 1 – 2 Stereo analogue I/Ps. A1 (Left Channel) and A2 (Right Channel).

2.3 Phase Indicator

This is a non latching push switch with Red/Green LED. The LED indicates a phase error when red. Pressing the non latching push switch momentarily reverses the phase.

3.0 General Notes

- Please note that some American equipment has the function of the XLR pins 2 & 3 reversed.
- TSL product is wired to the European standard.
- Temperature Sensor. When the unit becomes over heated the phase LED blinks for 30 seconds and the unit will turn off. It will automatically reset when the unit cools.
- It is recommended that the unit is secured into a rack for optimum performance.

4.0 Peak Hold Setup

The MPA1-BA allows the meter peak hold function to be set or cleared from the front panel.

To enter the setup mode, the phase button must be held down continuously for about 7 seconds. After this time, the phase indicator will change to an orange colour, the meters will change to a static display and the loudspeakers will mute.

At this time the meters will display the **current** setup of the unit. If no change is desired, a brief press on the phase button will return the unit to normal operation.

Once in the setup mode, the input selector switch chooses between two options which will be displayed on the left meter:

- PPM with Peak Hold (default)
- PPM without Peak Hold

The peak hold is indicated by a red bar at the top of the display.

Once a suitable setup has been found, the selection may be stored by once more holding the phase button down for approximately 7 seconds, after which the unit will return to normal operation.

The MPA-1BA may also be returned to factory default settings by pressing and holding the phase button for greater than 30 seconds.

Note: As UK PPM and EBU PPM have the same ballistic and level reference the signal on the bargraph can be read from either scale.

5.0 MPA1-BA Technical Specifications

Power Supply

Supply Voltage	12v DC
Power Consumption	Less than 30 Watts

Physical Dimensions

Height	44mm (1RU)
Width	19" Rack Mount
Depth	200mm
Weight	6 kg

Analogue Inputs 1 and 2

Connector Type	XLR Female 3 pin. Pin 1 Ground, Pin 2 hot, Pin 3 cold.
Signal Impedance	Balanced line level audio. >20k Ω

Headphone Output

Connector	Stereo jack socket (A gauge)
Impedance	47 ohm source for 8 to 600 ohm load
Output	Through level control with 0 dB gain

Performance

Response	120Hz to 20KHz
Electrical Distortion	Better than 0.1%
Hum and noise	Better than -80dB
SPL	>85dB at 0.6 m
Total Power Output	20 watts