

02-102

OPERATING INSTRUCTIONS

MS721 Master Station

1 Connecting the station to the system

Check the voltage selector and fuse rating are correct for the local line voltage. Plug the unit into the mains power supply and turn the station on at the large switch on the left hand side of the front panel.

Connect the outstations to the required channel on the rear of the station using 3-pin XLR type connectors. These are to be wired as in Diagram (1).

2 Basic Operation

Plug a TecPro compatible headset, wired as in Diagram 2, into either one or both of the 4-pin XLR type connectors on the front panel.

To speak to the outstations depress the Circuit push buttons. It is possible to speak to either Circuit 'A' or Circuit 'B', or both Circuits 'A' and 'B' simultaneously from either headset socket, likewise either or both circuits can be listened to at the same time depending on the positions of the circuit push buttons. The volume level heard in the headset can be altered by turning the volume control knobs situated above the headset sockets.

NB The outstations on Circuit 'A' cannot normally communicate at all with the outstations on Circuit 'B'.

3 Use with Accessory Microphone

An LSM 1 or equivalent microphone can be plugged into one of the headset sockets instead of the headset. The circuit push buttons activate the microphone enabling the system to be used as a hands-free talk-only paging system.

MS721 Master Station continued/.....

4 Sidetone Adjustment

The level of your own voice in your headset is called "sidetone". When using a headset the level can be altered as required by turning the sidetone preset (....) with a small screwdriver.

This level is set at the factory, and is suitable for the majority of installations.

5 Signal Light Operation

The signal push button flashes a light in all outstations connected to that circuit. It is used to attract the attention of a user that has a headset removed or station switched off.

This signal capability can be used for other special purposes such as activating transmit to a radio system connected via an AD913 Radio Interface Adaptor.

6 Auxiliary Inputs

The Mic and Line Auxiliary Inputs enable the user to have background music or the relaying of a show to both circuits automatically. The volume level of this can be controlled by the volume controls on the front panel. When a message needs to be made the user either speaks over the music or turns the volume down to speak.

These inputs are normally unbalanced. XLR pin '2' is 'hot'. See paragraph '7' below regarding balancing.

7 Extra Options

Override Generator OG904

This can be fitted into the MS721 to allow an override function on either or both Circuits of the station.

Auxiliary Balancing Board AB902

This can be fitted into the MS721 to allow the aux inputs to be balanced if it is being fitted to a balanced system.

For either or both of these options please contact your Dealer or Canford Audio direct.

MS721 Master Station continued/....

8 Clear-Com Compatibility

TecPro stations are completely compatible with Clear-Com stations. Any TecPro stations added to Clear-Com will functions thier Clear-Com equivalents.

However, Clear-Com stations have a lower bridging impedance and will degrade a TecPro system slightly, due to a reduction in side-tone stability incurred when a Clear-Com outstation is used in a TecPro communications system. Additionally, override tone may be reduced in effectiveness by Clear-Com Stations.

9 Specifications

Headset microphone impedance:
200 Ohm preferred; 30 Ohm - 1kOhm acceptable

Headset earphone impedance:
150-600 Ohm preferred, 8 Ohm-4kOhm acceptable

Power requirements:
99 - 132 V AC; 198 - 264 V AC

Fuse rating
120 V range - 1A; 240 V range - 500 mA

Fuse type:
North and South America - 1.1/4 x 1.4 in anti-surge
Europe and Africa - 20 x 5 mm anti-surge.

Power supply output voltage:
24 V DC with separate regulators on each circuit.
Self-resetting short circuit and overtemperature protection is fitted.

Maximum load:
650 mA per circuit, or 16 beltpack outstations per circuit,
totalling 32 outstations.

Note: The unit will continue to operate 32 outstations even if all the call lamps are continuously illuminated.

Line termination impedance :
200 Ohm in Audio Frequency band; 5 kOhm at DC

Clear-Com and Strandsound compatibility.

Microphone Aux Input:
As standard - unbalanced for 200 Ohm microphone, maximum sensitivity -60 dBu.

MS721 Master Station continued/.....

Specifications continued/.....

With Balanced option - (AB902) - balanced for 200 Ohm microphone, maximum sensitivity -75 dBu.

As normally supplied the microphone input mixes directly to both 'A' and 'B' circuits. This can be altered by internal links.

Line auxiliary input:

As standard - unbalanced 10 kOhm input impedance, maximum sensitivity -26 dBu.

With Balanced option - (AB902) - floating electronic differential, 10 kOhm input impedance, maximum sensitivity -26 dBu.

As normally supplied the line input mixes directly to both 'A' and 'B' circuits. This can be altered by internal links.

Lamp type:

24 - 30 V, 30 mA, 5 mm wedge base.

Mechanical details:

19 in rack mounting unit 2 units high (3.1/2in). Supplied with removable flanges and 4 rubber feet to allow use as a table top or rack mounting unit.

Dimensions overall:

437 x 254 x 88mm (17.1/2 x 10 x 3.1/2 in).

Rack mount clearance;

446 mm (17.5 in) maximum width between rack mount rails.

482 mm (19.0 in) maximum width to outside flanges.

207 mm (7.2 in) mounting surface to rear of unit.

Allow clearance for XLR connectors when calculating rack depth.

Front Panel Controls:

Power on/off switch

Auxiliary Microphone input level

Auxiliary Line input level

Signal Channel 'A'

Signal Channel 'B'

Talk to Channel 'A'

Talk to Channel 'B'

Preset Sidetone Adjust

Listen Level Headset 1 Output

Listen Level Headset 2 Output

Headset Sockets 1 and 2.

MS721 Master Station continued/.....

Specifications continued/.....

Rear Panel Facilities:

XLR 3 Pin female type sockets: Auxiliary Microphone Input
: Auxiliary Line Input
XLR 3 Pin male type sockets : Channel 'A' (3 off)
: Channel 'B' (3 off)

Voltage Selector: 110/120 for range 98 to 132 volts AC 50/60 Hz
: 220/240 for range 196 to 264 volts AC 50/60 Hz

Fuseholder - See fuse details above.

Power Lead - US only : Black = Live, White = Neutral, Green = Ground
- European: Brown = Live, Blue = Neutral,
Green/Yellow = Ground.

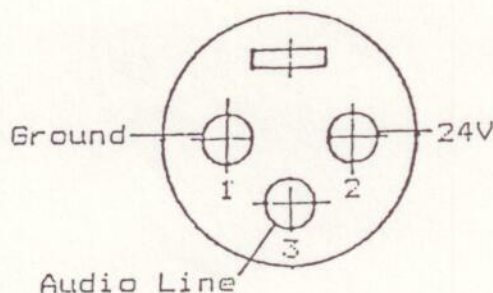
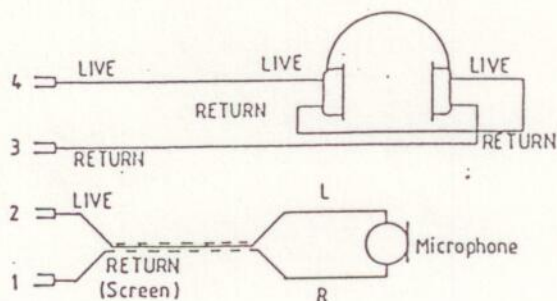
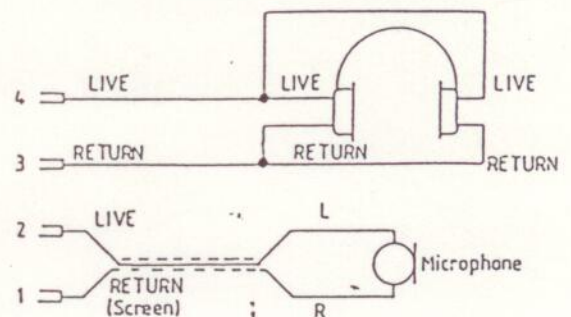


DIAGRAM 1



XLR 4-Pin Connector for Headsets of
Impedance less than 100 Ohms (Per Ear)



XLR 4-Pin Connector for Headsets of
Impedance more than 100 Ohms (Per Ear)

DIAGRAM 2