



# TECHNICAL DATA SHEET

## MICROPHONE SPLITTER

### 20-181 PRO-INTERFACE MK.2 FREESTANDING

A bi-directional stereo interface for matching "semipro" or "domestic" equipment, including cassette machines, video recorders and DAT machines for example, to the higher audio levels and differing connection methods of "professional" environments.

This rugged design is constructed in an extruded box, with four XLR connectors on the front panel. Two are female, connecting to high-impedance, electronically-balanced, line-level inputs, whilst the remaining two are male, fed from electronically balanced low-impedance, line-level outputs. These four connections are to interface with the "professional" environment, but may also be connected

unbalanced without loss of level. They are designed to connect with up to 100m FST cable (or similar) to standard line-level (low source, high or "bridging" load impedance) interfaces.

The rear panel has four RCA (phono) connectors to connect to the "semi-pro" device. All are connected unbalanced and have an adjacent associated multiturn gain control to adjust the operating level of the attached device to the line-up level of the "pro" environment. An IEC inlet with fuse provides connection to the mains supply. Source material is offered to aid alignment, see index: 25-301 to 25-308, 25-321 to 25-328.

### TECHNICAL SPECIFICATION

#### Unbalanced to balanced sections

|                              |   |
|------------------------------|---|
| <b>Input impedance:</b>      | 47kohms   |
| <b>Maximum input level:</b>  | +22dBu  |
| <b>Nominal gain range:</b>   | 0dB to +25dB  |
| <b>Load impedance:</b>       | 500ohms to 50Kohms  |
| <b>Output noise:</b>         | -94dB RMS re +8dBu O/P (20Hz-22kHz, +14dB gain)<br>(Input terminated 600ohms) |
| <b>Harmonic distortion:</b>  | 0.005%THD (1kHz, +8dBu O/P)   |
| <b>Frequency response:</b>   | 20Hz-20kHz $\pm 0.1$ dB   |
| <b>Maximum output level:</b> | +26dBu (10kohm load), +24dBu (600ohms load)                                   |

#### Balanced to unbalanced sections

|                              |  |
|------------------------------|--|
| <b>Input impedance:</b>      | 20kohms  |
| <b>Maximum input level:</b>  | +22dBu   |
| <b>Input CMRR:</b>           | 70dB typ.  |
| <b>Nominal gain range:</b>   | -25dB to 0dB   |
| <b>Load impedance:</b>       | 1kohms to 10kohms  |
| <b>Output noise:</b>         | -94dB RMS re +8dBu I/P (20Hz-22kHz, -14dB gain)<br>(600ohms input termination) |
| <b>Harmonic distortion:</b>  | 0.003% (1kHz THD, -14dBu O/P)  |
| <b>Frequency response:</b>   | 20Hz-20kHz $\pm 0.1$ dB  |
| <b>Maximum output level:</b> | +22dBu (1kohm load)  |

#### General

|                      |                               |
|----------------------|-------------------------------|
| <b>Power supply:</b> | 230VAC $\pm 10\%$ @6VA        |
| <b>Dimensions:</b>   | 220 x 110 x 47 (l x w x h) mm |
| <b>Weight:</b>       | 1kg                           |