



Technical Data Sheet

CANFORD PPM METER BOXES

57-901 to 57-936 ALL VERSIONS

DESCRIPTION

Free-standing or rack-mount units incorporating Sifam Peak Programme Meters.

This range of boxed PPMs utilise mild steel enclosures to provide effective screening when used in proximity to colour monitors or VDUs. Care should still be exercised however when used in extremely close proximity to colour screens as some stray magnetic field may be present around the visible meter glass aperture.

Most versions incorporate overload LEDs to indicate the presence of signals which exceed a preset threshold (factory set at +8dBu). Stereo versions incorporate a switch to select the M (sum) level. An IND setting will display an M level of 0dBu when 0dBu signals are present on both of the A and B inputs. BBC setting will display an M level of +3dBu when 0dBu signals are present on both the A and B inputs.

MODEL TYPES

Features of the standard types are as follows:

Type A

One input connector, one loop-out connector, one 32AF meter, one overload LED.

Type B

Two input connectors (stereo, or two channel use), two loop-out connectors, two 32AF meters, two overload LEDs. This type has no A/B M/S switching.

Type C

Two input connectors (stereo use), two loop-out connectors. One type 74B meter which is switchable A/B M/S and M/(S +20dB). Two overload LEDs. One rear panel mounted IND/BBC M level display switch.

Type D

Two input connectors (stereo use), two loop-out connectors. One type 74B meter that permanently reads A/B. One type 74A meter switchable M/S and M/(S +20dB). Two overload LEDs. One rear panel mounted IND/BBC level display switch.

Type E

Two input connectors (stereo use), two loop-out connectors. One type 74B meter that permanently reads A/B. One combined PPM/VU meter, similar to a type 74 PPM but one PPM movement and one VU movement reading Sum (mono) on both movements, giving an indication to both measurement standards. Only available in Natural Ash case with grey panels.

Type F

Two input connectors (stereo use), two loop-out connectors. One type 74B meter permanently reading A/B. One Canford phase correlation meter (58-348). Two overload LEDs.

CASE STYLE

Free-standing: Available in a choice of four case styles: Natural ash over full steel lining with grey front and rear panels. Black ash over full steel lining with black front and rear panels.

Rack Rackmount 3U: Grey front panel Black front panel.

CONNECTION

The audio inputs are electronically balanced, with pin 1 screen, pin 2 positive phase, pin 3 negative phase.

RE-ALIGNMENT

These units are aligned before dispatched from our factory but realignment is straight forward and does not require specific tools. On the wood case versions the front panel



should be removed, on the metal cased versions the top cover is removed by loosening (not removing) the screws around the edge. The presets on the drive cards located on the back of the meter are then accessible and should be adjusted as detailed below.

NOTE: Mains voltage is present on the underside of the power supply PCB though this is not normally readily accessible.

MONO CARD

The drive card is factory set to PPM4 at 0dBu. After applying 1kHz tone at 0dBu, adjust RV2 to align the pointer with PPM 4. RV1, Input Gain control, should not need adjustment but the user may wish to alter the reference level for systems which are not at 0dBu. (See fig.1)

STEREO CARD

Calibration of the drive is factory set to PPM4 at 0dBu. When fitting the meter to the card it may be necessary to adjust pot RV3, "METER L" and pot RV4, "METER R", to compensate for the meter tolerance on both Left and Right meters respectively. After applying 1kHz tone at 0dBu, adjust RV3 and/or RV4 to align the pointer(s) with PPM 4. RV1, "GAIN L" and RV2, "GAIN R", should not need adjustment but the user may wish to alter the reference level for systems which are not at 0dBu. (See fig. 2)

TECHNICAL SPECIFICATION

Type 32 meter performs to:	BS 6840: pt 10: 1991	Frequency response:	20 - 16000Hz
	IEC268-10: 1991	Power supply requirements:	230V AC, IEC320 connector
Type 74 meter performs to:	BBC spec. ED1542	Dimensions:	Free-standing - 278mm (w) 168mm (d) 151mm (h) Rackmount - 483mm (w) 231mm (d) 3U (h)
Input signal:	0dBu (+/- 3dBu)		
Resolution of meter drive circuitry:	8 bit		
Resolution of rectifier:	10 bit @+14dBu		
Input impedance:	100kΩ (per leg) balanced		

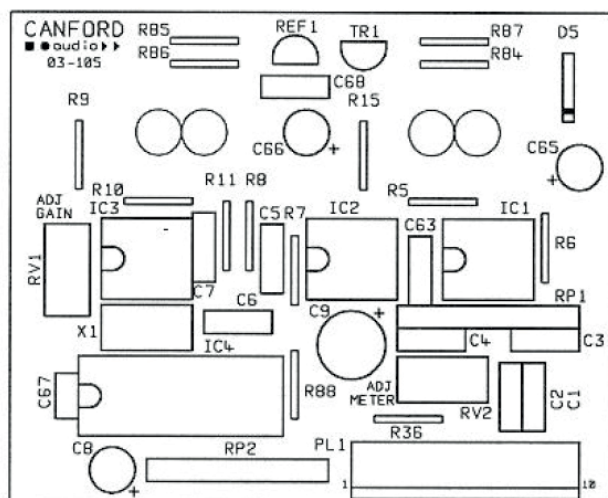


Fig.1 - Mono Card

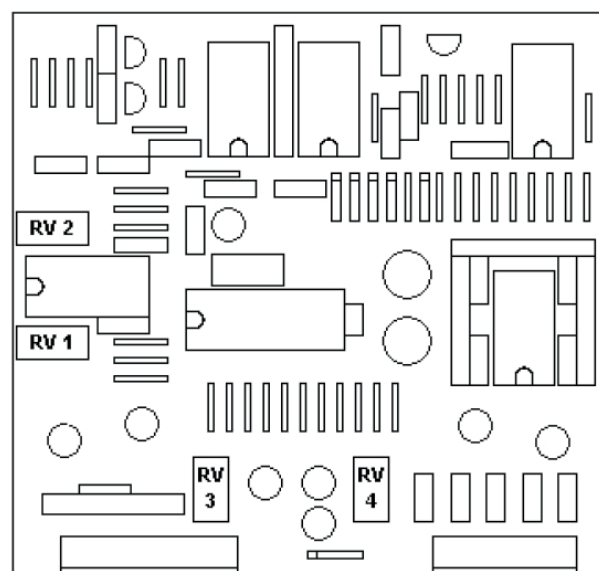


Fig.2 - Stereo Card