

Technical Data Sheet

PHASE CORRELATION METER

58-348 Phase Correlation Meter Mk.2

DESCRIPTION

The Phase Correlation meter indicates phase differences between two audio signals, typically both channels of a stereo signal and is particularly helpful in giving immediate indication of an out-of-phase signal. This meter is supplied complete with drive circuit card and is designed to match conventional PPM displays.

The scale is black and marked 0°-180° with sub divisions of 45°. To aid the user, the scale areas are coloured green, yellow and red to indicate correct, marginal or incorrect phase coherence. The phase of input 'B' is averaged over several seconds to indicate whether it is tending to be in-phase relative to input 'A'.

The drive card has two high impedance electronically balanced inputs and mounts directly onto the studs on the rear of the meter.

MOUNTING

The meter is designed for back-of-panel mounting, and uses the same housing as the PPM 32AF. See Fig. 1 for mounting details.

WIRING

Connection is by Molex type connectors (mating connectors are supplied). See Fig.2 - Drive card Connection Details.

POWER SUPPLY

Power requirement is dual rail DC in the range ± 12 to ± 15 volts. Illumination by festoon lamp or white LED array is possible - see under 'Sifam' peak programme meters' in the Canford Audio catalogue for details.

METER READING

An in-phase stereo signal will typically show a reading of between zero and 90° (the green zone) depending on the program material, while an out-of phase signal will indicate between 90° and 180° (the red zone). An in-phase mono signal will cause the pointer to stay at 0°. If the level of any input falls below the threshold value of -25dBu, the meter will return to the 0° position.

CAUTION: The circuit board contains electrostatic discharge sensitive devices.

Normal ESD precautions should be observed when handling.

ACCESSORIES:

58-360 Sifam Festoon lamp illumination kit.

58-361 Sifam festoon lamp 12 volt, 5W

58-371 Sifam LED illumination kit, 12 volt

TECHNICAL SPECIFICATION

Minimum input level:	-25dBm
Maximum input level:	+22dBm
Bandwidth:	55Hz to 35kHz
Input impedance:	200K Ω
Response time:	Approx. 0.5 seconds
Supply voltage:	± 12 v to ± 15 VDC
Current consumption:	± 30 mA at ± 12 VDC
Scale markings:	0, 45°, 90°, 135°, 180°
PCB dimensions:	85 x 60 x 15mm
Depth behind front panel, (including connectors):	60mm

