

**ILLUMINATION KIT****58-368 CANFORD LED Illumination Kit for 74A/B meters**

This illumination kit uses LED bar modules to provide a soft illumination of the scale and pointers of the type 74 twin movement PPM. Please note that LED arrays will not give an intensity of illumination equivalent to an incandescent lamp but due to their reliability and low temperature operation they are capable of being enclosed within the body of the meter enabling space saving mounting.

**FITTING**

As supplied the type 74 PPM has a clear glass panel inset on the top surface. This is mounted by means of either two M2 screws or by means of double sided adhesive tape.

The illumination kit is mounted on a PCB which has the same shape as the top glass panel and is intended to replace the panel with the LED arrays and reflecting surface pointing inwards. Removal of the existing glass panel especially those fitted using adhesive tape can be awkward and should be attempted with **extreme care**.

In cases where removal of panels fitted with adhesive tape is proving exceptionally difficult, it may even be necessary to remove the four brass countersunk screws on the corners of the front face of the meter and prise open the top panel by easing the bottom of the front face outwards and upwards and then easing the glass insert out by means of a sharp edged instrument.

Such an operation should only be undertaken by a suitably competent person as no responsibility for damage can be accepted by Canford Audio. The PCB may in turn either be fitted using two M2 x 6mm slotted cheesehead screws (where a corresponding thread is available on the meter body - not always the case) or by means of double sided adhesive tape around the edge. When the PCB is fixed in position a DC voltage may be applied to the PCB pads marked with a  $\pm$ . For convenience a  $\pm$  pad is provided at each end of the PCB but naturally only one set need be used.

As supplied the voltage applied to the PCB should be within the range 12-15V DC with a current capacity of at least 80mA. Voltages outside the above range may be used but the onboard current limiting resistors must be changed appropriately. In making calculations the LED arrays should be assumed to present a collective load of around 105 ohms.

**TECHNICAL SPECIFICATION:**

<b>Supply voltage (as delivered):</b>	12-15VDC
<b>Supply current (nominal):</b>	80mA
<b>LED Colour:</b>	Yellow
<b>Typical intensity (per array (4 used) at 15VDC):</b>	38mcd
<b>Approx dimensions:</b>	26mm (w) x 90mm (l) x 10mm (h)
<b>Weight:</b>	10.5 grams