

# Copon Pinhole Detector

The Copon Pinhole Detector has been designed specifically for the detection of Pinholes in any Non Conductive Coating on a Conductive Surface. It includes a Variable Sensitivity Control to cope with the excessive Carbon which is present in some coatings like "Copon" (from Plascon). The carbon acts as an electrical conductor & gives the impression that the coating is riddled with pinholes.

The Instrument has a Variable Voltage Source and a Presentable Current Detector which sounds an Alarm when current exceeds the Set Value.

A 3,5 Digit Display Indicates the Output Voltage which is the SAME Voltage present at the Sponge.

Battery Voltage Status is shown when the Battery Test Switch is activated.

The Output Voltage is adjusted by turning the Control Knob.

The Current at which the alarm sounds, is set by turning the Sensitivity Control. (No 3).

Calibration is possible by selecting any one of 11 Resistance values with the "Use" Switch (No 3).



On the Rear Panel are two sockets labeled "Power" & "12 Volt One for 220 volt AC Mains to charge the Battery and power the instrument if required. The other is for 12 Volt DC Input (e.g. To a Car Battery) to power the instrument. There are also two Fuses protecting each input.

The Charging Lamp on the Front Panel indicates that Mains is plugged in and that the battery is charging. It will go out when the battery is fully charged. The other lamp "Alarm" is a visual indication of the alarm condition.

The Maximum Voltage available is 200 Volts, The Output Current is limited to a maximum of 400 Micro-amp and Output Voltage will fall starting at 200 Micro-amp and be equal to 1,5 Volt at 400 Micro-amp.

Ripple Voltage at the Output is less than 300 mV to ensure accurate measurements.

The Carry Bag is similar to a back pack & can be worn on the User's chest, as the probe socket is on the front panel with all other controls (as per illustration) & can be easily viewed or operated.

The various shafts & separate extensions can be screwed on or off to suit the applications.

**NB** Do NOT attempt to unscrew the insulated Probe Shaft on the Probe Handle as it has 2 lock nuts on the inside.

a) For ground level work the overall length can be 1070 mm for working at a convenient 45 deg angle with 3 shafts connected.

b) For close-up jobs 'work without the 250 mm Extension shaft

d) The maximum thickness at 200 volts could be +E- 700 mic with any liquid that disperses quickly on contact as it will more easily penetrate through a thin pinhole to the substrate.

## Packing List

Instrument complete with Shaft + Ext Shaft & Sponge with Rod & Butterfly nut)

## Technical Specifications

1) Weight (Unit without Probe)	: 2.3kg	7) Extension Shaft	: 250 mm
2) Size (Unit without Probe)	: 260 x 250 x 54 mm	8) Sponge plates	: 200x100 mm
3) Probe Handle only	: 255 mm	9) Earth Cable & Lead to Sponge	: 5 & 4 metres
4) Probe with integral Shaft	: 490 mm	10) Length from Sponge to front handle	: 580 mm
5) Sponge shaft only	: 330 mm	11) Overall Probe Length with Handle	: 1070 mm
6) Sponge	: 250 x 150 x 75 mm		



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