

# ELECTROSURGICAL POROSITY DETECTOR

## PCWI Compact

### Application

To provide high - voltage instruments for the inspection and location of defects (pinholes) in protective coatings applied over conductive surfaces - specifically for testing the instruments and leads in electrosurgical procedures.

### Compliance

Complies with the requirements of:  
Australian Standard AS3894, 1 - 2002, ASTM G62 - B, NACE RP0188 - 88, ASTM D4787, JIS G - 3491, JIS G - 3492, ANSI/AWWA 214 - 89, ANSI/AWWA C213 - 94 and ISO 2746.

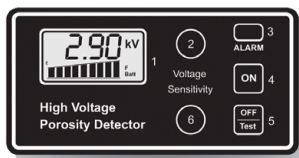
### Conformance

To meet the recommendations of NSW Health Department Bulletin 98/14 - 15.6.98;  
Superseding 97/20 - 11.8.97

### Voltage

Fully adjustable permitting test voltage selection for Bipolar Micro 0.4kV DC; Bipolar Standard 1.5kV DC; Monopolar 4.2kV DC; and other testing from 0 to 8kV DC.

### Controls



1. LCD display (including batter condition indicator)
2. Voltage control
3. Visual alarm indicates when fault is found
4. On switch
5. Off/test switch (momentary-on)
6. Sensitivity control for the alarm
7. Audible alarm when fault is found
8. High Voltage probe connector
9. Fuse (1.6V slow blow)
10. Earth connection point
11. Charge connector - allows operation while charging is in progress
12. Slip-on battery pack

### Kit consists of:

- Detector
- 10hr Charger
- Probe handle and 2m lead
- 2m Earth lead and clamp
- 84mm wide brass wire "MPD" brush
- Kit case
- Operating instructions



### Features

- Small, lightweight and simple to operate, with ABS case.
- Constant current source maintains applied test voltage.
- Full test current at low voltages (where it is needed most) when testing thin films (e.g. 150um - as per AS3894, 1 - 2002).
- Alarm Sensitivity Control.
- Incorporates a test button (mounted on the front panel), allowing it to be switched on momentarily for safety, or run continuously.
- No need to swap power supplies or change probes to change voltage. Operates from mains power (via the charger) during recharging. Fully charged in 10 hours, with overcharge protection. Slip on battery compartment.
- Regulated DC output completely adjustable from zero volts.
- Applied voltage is shown on the Liquid Crystal Display with battery condition indicator.
- The PCWI Warranty.

### Specifications

|                           |                         |
|---------------------------|-------------------------|
| <b>Weight:</b>            | 2.2kg                   |
| <b>Display:</b>           | LED 3 1/2 digits        |
| <b>Voltage:</b>           | 0 and 8kv adjustable-   |
| <b>Short circuit:</b>     | Test current 0.1mA max  |
| <b>Power supply:</b>      | GellCell 1.5Ah internal |
| <b>Dimensions:</b>        | 260 x 160 x 70mm        |
| <b>Alarm:</b>             | Audible and visual      |
| <b>Battery Condition:</b> | LED Display             |

### Optional Accessories

PCWI DC Crest Meter  
For testing

- The output of detector and verifying the displayed voltage
- The continuity of the leads
- Under applied or full load