

## COMPACT DC POROSITY DETECTORS

PCWI International are leaders in the manufacture, certification and distribution of specialist measuring instruments relevant to the metals construction and coating industries.

### FEATURES

- Lightweight with ABS Case
- Momentary On Switch allows Auto Shut-off
- Digital Display of Applied Voltage with integral Battery Condition indicator
- Regulated DC Voltage
- Voltage Ranges of 0-15kV or 0-30kV, Fully Adjustable
- Clip-On Battery Pack
- Constant Test Current
- Sensitivity Control
- Overcharge Protection
- Earphones for Noisy Environments



### APPLICATIONS

Used for detection of Coating Porosity (Pin-holes, or Holidays) in dielectric (insulation type) coatings on conductive substrates, including Concrete. Suitable for Production Pipeline Coating operations, Tank-Work and Structures. Ideal for use on Storage Tanks, Valves and Pipelines.

Housed in a fully portable ABS case, the Detectors deliver stabilised DC output of up to 30kV. Constant Current source maintains applied test voltage. Full test current at low voltages (where it is needed most) when testing at low film builds (eg: 150 $\mu$ m – as per AS3894.1).

Incorporating momentary-on and continuous-on switches (mounted on the front panel), allowing the units to be switched on momentarily for safety, or run continuously.

No need to swap probes to change voltage – the Detectors have Clip-on Battery Packs that must be separately charged. Fully recharged in 4 hours. Regulated DC output Fully Adjustable. Applied voltage and battery condition are continuously shown on the Liquid Crystal Display.

### STANDARDS & COMPLIANCE

Can be used in accordance with: Australian Standard AS3894.1, ASTM G62, ASTM D5162, ASTM D4787, NACE SP0274, NACE SP0490, NACE SP0188, ANSI/AWWA C213, ANSI/AWWA C214, ISO 2746.

In support of our policy of continuous product improvement we reserve the right to change materials and specifications without notice. Drawings, where used, are not to scale. All dimensions are in millimetres and sizes given are approximate. Where possible, technical MSDS data sheets are made available on the website. All products should be installed and used in accordance with manufacturer's instructions provided. Warning: products may be the subject of registered designs and patents. Refer to website for terms and conditions on warranty.

**TECHNICAL DATA**

SPECIFICATIONS	DC15	DC30
Voltage Display	0 to 15kV	0 to 30kV
Alarm Range	500V to 15kV	500V to 30kV
Resolution	10V	
Accuracy	±5% of reading or ±50.0V below 1.0kV	
Short Circuit	Test Current 0.5mA Max	
Power Supply	LiFePO4 Clip-on	
Operating Temperature	0°C to 60°C	
Alarm	Audible and Visual	
Display	LCD 3¾ Digits	
Probe Handle	2m High-Voltage Silicon-Rubber lead	
Dimensions	260 x 160 x 70mm	
Unit Weight	845g without Battery 1.45kg with Battery	



**KIT OPTIONS**

PCWI Compact DC Porosity Detectors are available in two kit options, allowing you to select the kit that best suits your requirements.

**Industrial Kit:** Detector with Clip-on Battery, Universal Charger, Probe Handle with Neon and 2m Lead, 60mm Connector for Flat Brushes, 7m Earth Lead with Clamp, Fan Brush, 250mm Flat Brass Wire Brush, 450mm Probe Extension, Air-Operated Earphones, Shoulder & Waist Harness, Kit Case, Operating Instructions, Manufacturers Certificate.

**Pipeline Kit:** Detector with Clip-on Battery, Spare Clip-on Battery, Universal Charger, Probe Handle with Neon and 2m Lead, 60mm Connector for Flat Brushes, 7m Earth Lead with Clamp, Fan Brush, Coil Joiner, 450mm Connector, Air-Operated Earphones, Shoulder & Waist Harness, Kit Case, Operating Instructions, Manufacturers Certificate.

**ORDERING INFORMATION**

PART NUMBER	DESCRIPTION
<b>DC15IND</b>	COMPACT DC15 INDUSTRIAL KIT
<b>DC15PIPE</b>	COMPACT DC15 PIPELINE KIT
<b>DC30IND</b>	COMPACT DC30 INDUSTRIAL KIT
<b>DC30PIPE</b>	COMPACT DC30 PIPELINE KIT

In support of our policy of continuous product improvement we reserve the right to change materials and specifications without notice. Drawings, where used, are not to scale. All dimensions are in millimetres and sizes given are approximate. Where possible, technical MSDS data sheets are made available on the website. All products should be installed and used in accordance with manufacturer’s instructions provided. Warning: products may be the subject of registered designs and patents. Refer to website for terms and conditions on warranty.