

PCWI Compact Porosity Detectors

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



DC Porosity Detectors

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

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: 150µm—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.

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
Slide-off power pack
Constant test current
Sensitivity control
Overcharge protection
Single power supply
Earphones for noisy environments



Controls



1. LCD display (including battery condition indicator)
2. Voltage control (10 turn)
3. Visual alarm indicates when fault is found
4. On switch
5. Off/test switch
6. Sensitivity control for the alarm
7. Audible alarm when fault is found
8. High Voltage probe connector
9. Fuse (1.6A slow blow) 5 x 20mm
10. Earth connection point
11. Slide-off power pack
12. Earphone jack (connected on opposite side)



Complete with 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, Calibration Certificate.

Pipeline Kit:

Detector with clip-on battery, Spare clip-on battery & terminal protector, 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, Calibration Certificate.

Specifications

	DC15	DC30
Unit Weight:	2.2kg	2.2kg
Packed Weight:	8.0kg	8.0kg
Display:	LCD 3¾ digits	LCD 3¾ digits
Voltage:	0 to 15kv	0 to 30kv
Resolution:	10v	10v
Short circuit:	Test current 0.5mA max	
Power supply:	LiFePO4 Clip On	
Dimensions:	260 x 160 x 70mm	
Alarm:	Audible and visual	
Probe handle:	2m high-voltage silicon-rubber lead	
Battery condition:	LCD Display	

MADE IN AUSTRALIA