



# THE INSTRUMENTS AND SUPPORT YOU NEED FOR THE INDUSTRY

PCWI manufactures, sells, services and certifies instruments relative to the metals, construction and coating industries.



PCWI - PRECISION INSTRUMENTATION

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# ABOUT US

**PCWI** are leaders in the design, manufacture and distribution of specialist industrial measuring instruments for the metals, construction, coating and related industries.

The detection of imperfections in protective coatings that have been applied to eliminate moisture, and the accurate determination of the thickness of such coatings, is of critical importance in a wide range of industrial applications.

Our specialist knowledge in the design and manufacture of **Holiday Detectors, Porosity Detectors, Pinhole Detectors and Coating Thickness Calibration Standards**, derived from over two decades work in this field, have established PCWI as one of the world leaders in the development of technology in this area.

All PCWI holiday detectors, pinhole detectors & calibration standards are designed and manufactured to the highest standards of accuracy and reliability at our Cardiff facility in New South Wales, Australia. Our Quality Management System is certified to **ISO 9001** (Lic No 13066), and our in-house supports testing for a wide range of instruments. Certification is traceable to National Standards via NATA (NML - Australia), UKAS (NPL - UK), and NVLAP (NIST - USA) certified equipment.

A program of continuous Research and Development underpins PCWI's work, and is your guarantee of the best possible product. We understand the technical specifications demanded by industry, and recognise that customer requirements are specific in relation to specialist testing and measuring instruments.

While PCWI is determined to maintain its status as a major exporter of holiday detectors and calibration standards, the Company will continue to offer the best available service to the domestic market and recognise that customer satisfaction, on time delivery and competitive pricing are the keys to ensuring the Company's success in the future.

PCWI stock a comprehensive range of specialist test & measuring instruments relevant to your industry. You can find out more at: **[pcwi.com.au](http://pcwi.com.au)**



# OUR RANGE OF SERVICES & PRODUCTS



## COMPREHENSIVE PRODUCT RANGE

Deep stock holdings of brands you know and trust.



## SAME DAY RESPONSE TO ENQUIRIES AND ORDERS

All orders and enquiries will be processed same day.



## WARRANTIES AND AFTER SALES SERVICE

PCWI provides twelve months warranty for most products.

### PCWI BRAND PRODUCTS



### POROSITY (HOLIDAY) DETECTORS & ACCESSORIES



### MULTIMETERS



### GENERAL



### ADHESION TESTERS



### CLIMATIC (TEMPERATURE, HUMIDITY, WIND)



### COATING THICKNESS STANDARDS & FILMS (SHIMS)



### GLOSS METERS



## LABORATORY

PCWI's in-house laboratory can support testing for a range of instruments.



## MARKET KNOWLEDGE AND PRODUCT TRAINING

PCWI provides technical product training and support.



## EXPERT TECHNICAL SUPPORT

PCWI has technically qualified staff to guide you and provide in-house after sales support.



## CONTINUOUS R&D PROGRAM

PCWI maintains a program of continuous quality improvement in systems and procedures.

### HARDNESS



### MOISTURE METERS & ACCESSORIES



### SURFACE PROFILE GAUGES



### INSPECTION



### COATING THICKNESS PAINT GAUGES (DRY FILM)



### ULTRASONIC THICKNESS



### CERTIFICATION & COMPLIANCE SERVICES



# PROUDLY DISTRIBUTING DEFELSKO

PCWI is an Australian importer, distributor, sales and service agent of DeFelsko's range of coating thickness gauges (paint gauges). We carry a large range in stock and can normally get what you need to you by overnight courier.

**DeFelsko®**  
The Measure of Quality

## COATING THICKNESS PAINT GAUGES (DRY FILM)

Coating thickness gauges are used to test the dry film thickness of most metals, plus concrete, fibreglass, glass, and plastic. The gauges can measure coatings on ferrous substrates, such as steel, and non-ferrous substrates, such as stainless steel and aluminium and non-metals such as concrete, fibreglass, glass, plastic, gyprock and timber.

Our devices measure coatings that include powder coating, galvanising, anodising, plastic coating, and vitreous enamelling, just to name a few.

We sell, support and service a wide range of gauges and probes, capable of measuring coatings from 600micron to 63.5mm.

Your coating thickness gauges need to be verified as accurate when applying coatings, so for ongoing calibration, they are supplied with a working set of calibration films. For a traceable reference, certified films and coated plate standards are available.

## The DeFelsko PosiTector range

We can help you select the right coating thickness gauge for your needs.



PosiTector 200



PosiTector 6000 Series



PosiTest PC



## PosiTector 200

The PosiTector 200 is ideal when you need to measure coatings on non-metal bases. It's easy to use, accepts a large range of probes and has a large memory which can be uploaded to a computer for later analysis.

## PosiTector 6000 Series

The PosiTector 6000 series has models with external/separate probes and models with removable integral probes. The 6000 series paint gauges can measure coatings up to 63.5mm thick on metal and non-metal bases. With a wide variety of probes and accessories, you'll find a combination to suit your needs.

## PosiTest DFT

The PosiTest DFT has been designed with the Automotive refinishing industry in mind, it's compact and simple to use and comes in ferrous and ferrous/non-ferrous base models.

## PosiTector PC

The PosiTector PC measures uncured powder coatings using non-contact ultrasonic technology.

## PosiTector SmartLink

A Smart new way to measure PosiTector SmartLink and free mobile app turns your mobile phone or tablet into a virtual PosiTector paint gauge.



PosiTest DFT



PosiTector PC



PosiTector SmartLink



# POROSITY (HOLIDAY) DETECTORS & ACCESSORIES

PCWI designs and manufactures world leading range of compact porosity detectors, often called holiday or pin hole detectors. PCWI was one of the first companies in the world to develop compact, portable, porosity detectors allowing you to take them where you need them without the heavy lifting.

**PCWI IS CONTINUOUSLY IMPROVING OUR PRODUCTS TO ENSURE YOU ARE PURCHASING WORLD LEADING TECHNOLOGY.**

Corrosion is an extremely costly and disruptive worldwide problem. The oxidation of metal (and concrete) surfaces, exposed by the breakdown or inadequacy of the applied protective coatings call for early detection to correct serious extension.

Surfaces requiring testing are generally expected to exhibit long life without maintenance, and are often difficult and very expensive to assess. Under these circumstances, it is essential that regular inspection, good measurement methods, and competent instruments are used, and accurate test results obtained, both before and after installation.

Increasingly, Porosity Detectors are employed in the non-destructive detection and location of pinholes (holidays), bare spots or thin points in protective coatings applied for corrosion protection over metal and concrete (conductive) surfaces.

PCWI manufactures both high and low voltage (wet sponge) instruments with a complete range of relevant accessories for such inspection and detection.





# PCWI COMPACT PULSE DETECTOR

PCWI Compact Pulse Porosity Detector. This Holiday Detector is fully adjustable, has regulated 'pulsed' output up to 20kV, 40kV.

The P20 and P40 models can be used for porosity and holiday testing of carbon impregnated coatings such as carbonated rubber, thick coatings such as rubber linings and on 'plastic'/fibreglass type coatings likely to become electrostatically charged.

These models are ideal for use in moist conditions, on wet and contaminated coating surfaces. Commonly known as holiday detectors, spark testers, porosimeters or jeepers.

### COMPLIES WITH THE REQUIREMENTS OF:

AS3894.1-2002 and Nace Standards: SP0490-2007; RP0274-2004 & SP0188-2006

### Applications

- Used for detection of coating porosity (pin-holes, or holidays) in dielectric (insulation type) coatings on conductive substrates, including concrete
- Regulated "Pulsed" output fully adjustable



### Ideal for use:

- On contaminated coating surface
- On carbon-impregnated coatings, ie: carbonated rubber
- On very thick coatings

### Features

- Lightweight with ABS case
- LCD display of voltage
- Fully adjustable voltage
- Clip-on battery pack
- Constant test current
- Overcharge protection

# COMPACT DC POROSITY DETECTOR

The PCWI Compact is a High Voltage DC Porosity detector. They are also known as holiday detectors, spark testers, porosimeters and jeepers.

These are used to ensure the longevity of coating systems by locating pin holes, air bubbles, and porosity in non-conductive coatings on conductive substrates, including concrete.

PCWI also hire DC Detectors to clients within Australia.

### COMPLIES WITH THE REQUIREMENTS OF:

AS3894.1-2002 (R2013) and Nace Standards: SP0490-2007; SP0274-2011 & SP0188-2006

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



### Features

- Lightweight with ABS case
- Momentary on switch - auto shut-off
- Digital display of applied voltage
- Regulated DC voltage
- Voltage ranges fully adjustable
- Clip-on battery pack
- Constant test current
- Sensitivity control
- Overcharge protection
- Single power supply
- Earphones for noisy environments

# PCWI COMPACT WET SPONGE PINHOLE DETECTOR

These units are also known as wet sponge testers, low voltage holiday detectors, low voltage porosity detectors and pin hole detectors. This Holiday detector uses the low voltage wet sponge method to detect pinholes (holidays) in coatings.

Model available: 9, 67,5 and 90 volt Selectable. Proudly manufactured in Australia by PCWI.

### COMPLIES WITH THE REQUIREMENTS OF:

AS3894.1-2002 (Wet Sponge Testing); ASTM G62-07; ASTM G60-07; ASTM D5162-08; Nace Standards: RP0274-2004 & SP0188-2006

### Applications

- Uses the wet sponge method to detect pinholes in coatings



### Features

- LED display of voltage
- Internally mounted 9V battery
- Low battery condition LED indicator
- Audible and visual fault alarms
- Telescopic handle for user comfort (extends to 1.2m)
- Large probe head (230 x 40mm) and wider sponge allows for faster testing
- Earphone jack to allow testing in noisy environments (earphone not supplied)

# HOLIDAY DETECTOR HIGH VOLTAGE DC CREST METER

For verifying output voltage and the calibration of High Voltage DC Porosity Detectors and Holiday Detectors. 0 to 30kV (auto ranging)

## Applications

- Verification of output voltage and set voltage of detectors when a load is applied to the probe
- To ensure accuracy, and to enable voltage adjustment (if necessary)



## Features

- Used for checking & calibrating Porosity Detector output voltage
- Compact, lightweight hand-held unit
- Integral probe
- Conformance Certificate
- Carry Case

# HOLIDAY DETECTOR EXTERNAL ROLLING PIPELINE BRUSHES

Brass wire brushes 25mm to 600mm or custom made as required.

Suitable for all High Voltage Porosity detectors, holiday detectors, spark testers and jeeppers.

Large 1/2 circle or 1/3 circle brushes are also available. Adapters available for most brands/makes and models.



## Features

- Roller wheel mounted
- Lightweight
- Rolls easily over joints
- Moves easily around bends
- Splits for easy fitting

## HOLIDAY DETECTOR FLAT BRUSHES

Flat brass wire brushes 50mm to 600mm, Fan brushes and handle extension pieces also available.

Suitable for all High Voltage Porosity detectors, holiday detectors, spark testers and jeeppers.



### Features

- Fan brushes
- Handle extension pieces
- Adapters available for most brands/ makes and models.



# COATING THICKNESS STANDARDS & CALIBRATION BLOCKS

For calibrating and checking the accuracy of all coating thickness gauges/instruments.

Ferrous and Non-ferrous Coating Thickness Standards with thicknesses ranging from 6µm to 20mm.

Supplied with a report traceable to NMIA + NIST certified equipment and recertification is available.

### COMPLIES WITH THE REQUIREMENTS OF:

Australian Standard AS3894.3-2002.

### Ferrous & Non-Ferrous available:

- 10µm to 50µm (in 5µm increments)
- 50µm to 100µm (in 10µm increments)
- 100µm to 200µm (in 25µm increments)
- 200µm to 500µm (in 50µm increments)
- 500µm to 1000µm (in 100µm increments)
- 1000µm to 1500µm (in 250µm increments)
- 1500µm to 20,000µm (in 500µm increments)



### Features

- All standards are housed in a leatherette folder
- Available in combined imperial/metric ranges
- The thickness of each plate can be manufactured to your requirement

# MEASURED CALIBRATION FILMS - CERTIFIED

PCWI Measured Calibration Films are a Benchmark for Calibrating your Coating Thickness gauges and for your Quality Assurance (QA) Coating Procedures. Complies with the requirements of Australian Standard AS3894.3-2002.

Used for calibrating and checking the accuracy of digital coating thickness gauges and instruments (not for manual magnetic gauges).

These certified films are available in sets containing 6 films to the thickness you require.

Supplied with a report traceable to NMIA + NIST.

### COMPLIES WITH THE REQUIREMENTS OF:

Australian Standard AS3894.3-2002

### Available Thickness

- 2, 4, 6, 8, 10, 12, 19, 25, 30, 35, 50, 75, 100, 125, 190, 250, 350, 400, 500, 1000, 1500, 3000, 4500, 6000, 10,000, 12,500µm



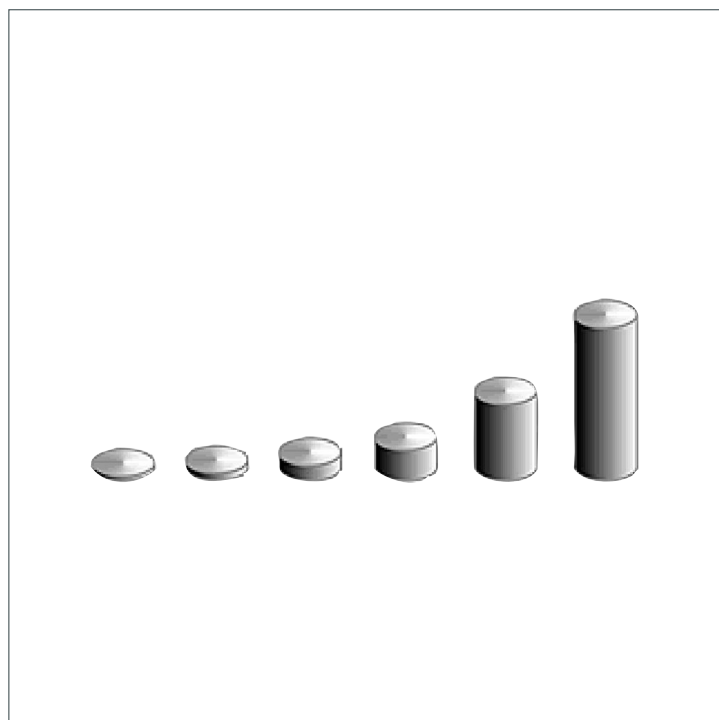
# ULTRASONIC THICKNESS GAUGE CALIBRATION BLOCKS

CERTIFICATION of Ultrasonic Thickness Gauges via PCWI® Ultrasonic Calibration Blocks

Known as ultrasonic calibration standards, ultrasonic calibration blocks, thickness gauge calibration blocks, flaw detector calibration blocks, ultrasonic thickness blocks.

## Applications

- A series of individual steel blocks for checking the linearity of ultrasonic thickness gauges and flaw detectors.
- Sizes: 1.5mm, 2.5mm, 5mm, 8mm, 10mm, 15mm, 20mm, 25mm, 50mm



## Features

- Supplied with certification traceable to NMIA (Australia) & NIST (USA) Certified Equipment.
- Each block is corrosion protected by flash coating to stop surface rusting.
- Tolerance: -0.000mm to +0.01mm
- Diameter: 20mm

# ULTRASONIC THICKNESS

Ultrasonic thickness gauges are used to measure the thickness of materials which include steel, stainless steel, cast iron, glass, and plastics (including PVCs). Their key use is in detecting uniformity and flaws in material thickness including checking the extent of corrosion in metals.

These gauges can be set to and then measure the velocity or sound of specific types of materials. Some instruments will measure basic types of metals, some instruments will measure with coatings, and will include the coating in the measurement; others will eliminate the coating itself - the gauges are clever enough to measure the thickness and eliminate the 1-2mm of coating that could be on the structure.

Being able to measure the thickness of a given material is particularly important when testing for corrosion in products that are continuously exposed to the elements - for example, light poles, ships, reinforcing-bar in concrete, and just about every kind of pipe.



**Lanyu TM210A**



**Dakota Ultrasonics MX-3**



**Defelsko Positector UTG**



**Dakota Ultrasonics MMX-7**



**Dakota Ultrasonics MVX A/B Scan**



**Dakota Ultrasonics CMX B Scan**

# GENERAL PURPOSE & CORROSION GAUGES

### **Lanyu TM210A**

An economical digital ultrasonic thickness gauge which provides both single point readings and a scan/storage mode allowing you to record the scan of your material.

### **Dakota Ultrasonics MX-3**

The MX-3 is a digital ultrasonic thickness gauge. Make single measurements or scan your material and the instrument will lock onto the thinnest point scanned.

### **Defelsko Positector UTG**

You have a choice of the standard model which is a digital ultrasonic thickness gauge or the advanced model which also provides full A & B scan features.

### **Dakota Ultrasonics MMX-7**

Select either large digit mode or B-scan display mode. Also has a "through paint" mode. Has an internal data logger which stores a total of 12,000 readings and B-scans with 64 customer definable setups. Allows you to take readings on a one foot square grid, say, on a 10 x 10 tank, setup 10 columns and 10 rows.

### **Dakota Ultrasonics MVX A/B Scan**

Full digital ultrasonic thickness gauge, A-scan and B-scan capabilities. Shows waveforms echoes & defects. Can customise your setup like the MMX-7; has an internal data logger which stores a total of 12,000 readings and waveforms with A-scans and B-scans in multiple files with 64 customer definable setups. High power unit and allows user to fine tune for use in more difficult applications.

### **Dakota Ultrasonics CMX B Scan**

Has all the features of the MMX with the added facility of being able to operate as a coating thickness gauge in coating only mode. High power, auto probe recognition and auto zeros.

## Precision Gauges

### **Dakota Ultrasonics PX-7 Thin materials**

The PX-7 is a basic high precision digital ultrasonic thickness gauge. Accurately measures thin materials from 0.15mm to 25mm.

### **Dakota Ultrasonics PVX B Scan**

A high precision digital ultrasonic thickness gauge which also has B-scan capability.

## Velocity / Nodularity

### **Dakota Ultrasonics VX**

The VX is an ultrasonic velocity gauge and is often used for nodularity testing of material like cast iron. It displays the speed of sound (velocity) through the material giving an indication of its consistency.

# PROUDLY DISTRIBUTING PROTIMETER

PCWI is an Australian importer, distributor, sales and service agent of the Protimeter moisture meter range.



## MOISTURE METERS AND ACCESSORIES

Protimeter provides a wide range of high calibre moisture measuring instruments for professionals in a wide range of vocations. Specialised instruments are available for the assessor, the surveyor, the flooring contractor, and many more.

For more than 40 years, Protimer has been a pioneer in designing moisture meters and is responsible for creating and developing cutting edge technologies now considered vital to measuring and diagnosing moisture and dampness in the built environment.

Because Protimer devices are designed for professional use, they are hard-wearing, reliable, and accurate instruments, besting their competitors by providing readings users can rely on day in and day out. Protimer instruments come with a 2-year warranty, and as a result are the professional's logical choice for a durable, trustworthy companion for measuring moisture levels.



Mini



Aquant



Surveymaster



Hygromaster2



MMS2



Timbermaster2





## **Mini**

The Mini moisture meter is the simplest of the protimeter moisture meter family, with single button operation, dual measurement pins, and a colour coded LED scale wrapped up in a rugged housing.

## **Aquant**

The Aquant 2 provides fast and accurate moisture metering without being invasive, using radio waves to detect moisture below the surface of a covering such as tile, wood, vinyl, or fibreglass. It is especially helpful for locating damp spots in otherwise undetectable surfaces.

## **Surveymaster**

The Surveymaster is the ideal hybrid of measuring and searching for moisture; able to seek out damp using non-invasive radio waves as well as determine the amount of moisture in a material with dual measurement pins. The Surveymaster 2 is able to use both of these features at once, and is of great assistance in quickly and accurately determining the extent surface and sub-surface moisture.

## **Hygromaster2**

The Hygromaster allows for easy, portable spot checks of environmental factors, including temperature and humidity levels. It allows the relative humidity of walls, floors, and concrete to be measured quickly and reliably.

## **MMS2**

The Moisture Measurement System (MMS) combines the Search and Measure functions of the Surveymaster with the humidity measuring features of the Hygromaster. It is the ideal tool for a professional looking to measure the moisture levels all through a building.

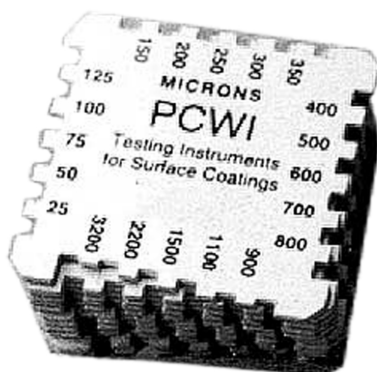
## **Timbermaster2**

The Timbermaster provides moisture measurement across a wide array of wood species and can measure timber and wood-based products alike. The device is also capable of taking sub-surface measurements when used in conjunction with the temperature probe or the hammer electrode.

## PCWI WET COMBS

PCWI Four-sided Anodised Aluminium Wet Film Thickness Combs are used to measure the wet film thickness of a coating prior to it curing, drying or solvents flashing off.

These WFT Combs are made of a hard marine grade aluminium and anodised. Lettering is punched in and not printed on, Min order, 10 per pack. Personalised wet film combs available (min 1000).



### Features

- Side 1: 25, 50, 75, 100, 125µm.
- Side 2: 150, 200, 250, 300, 350µm.
- Side 3: 400, 500, 600, 700, 800µm.
- Side 4: 900, 1100, 1500, 2200, 3200 µm.





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