



Pinhole Detector



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The Pinhole Detector uses the wet sponge principle to detect through-pinholes, cracks and damaged areas on non-conductive coatings on conductive substrates. These flaws would eventually lead to corrosion and premature failure of the coating.



Operation is by a wet sponge, moistened with a wetting agent, being moved over the coating. The wetting agent penetrates any pinhole and makes a conductive path through to the substrate.

The Pinhole Detector detects this conductive path and indicates that a pinhole has been detected by sounding an audible alarm and giving a visual warning by a red flashing indicator.

The Pinhole Detector has test voltages of 9 Volts, 67.5 Volts and 90 Volts, which are easily selectable.

Specification

Accuracy: ±1%.

Maximum test thickness 9V: 300µm.

Maximum test thickness 67.5V & 90V: 500µm.

Compliance

ISO 29601.



The Pinhole Detector must not be used in any area which could have a combustible or flammable atmosphere, as the test voltage can cause a spark and an explosion could occur.



Supply

Supplied in an industrial foam-filled Carrying Case with 150mm Sponge Assembly and 5m Earth Cable.

Calibration Certificate with traceability to UKAS is an optional extra.



Ordering

S3002 Pinhole Detector 9V/67.5V/90V

NS002 Pinhole Detector Calibration Certificate

SS004 Spare Earth Cable 5m

SS005 Spare Sponge Assembly



Instructions

Detection

Connect the plugs on the Pinhole Detector Handle and Earth Cable to the colour-coded sockets on the base of the instrument.



Connect the Earth Cable to the base metal of the item under test. It is essential that the base metal of the item being tested is also connected to a true earth.

Switch the Pinhole Detector on and select the test voltage of 9V, 67.5V or 90V using the mode keypad. The test voltage should normally be 90V. A test voltage of 9V can be used for coatings with a mean thickness of up to 300µm.

Wet the Sponge with water containing a wetting agent. Squeeze the Sponge so that the excess water is removed and the Sponge does not drip.

Place the Sponge on the coating to be tested and move over the full area of the coating, ensuring a wet interface is maintained between the Sponge and the surface.

If a pinhole is detected, the water will make a conductive path through the pinhole in the coating to the metal substrate, the alarm will sound and the red flashing fault indicator will illuminate. The flaw can now be marked for repair and further testing can be resumed.

To switch the Pinhole Detector off, press the mode keypad until the selectable voltages indicators are not illuminated.

If the coating has been applied recently, it should be cured in accordance with the manufacturer's instructions before testing. In the absence of manufactures instructions the coating should be cured for at least 10 days.

The surface of the coating should be free of oil, dirt and other contaminants before testing.

Replacing Battery

When the battery requires replacement, the red Lo Bat indicator will illuminate.

With the instrument switched off remove the cover located on the rear of the instrument, replace with an alkaline PP3 battery, ensuring correct polarity.

About Us

Paint Test Equipment is a global leader in the manufacture of specialist test equipment specifically for the industrial painting and coating industries for the protection of steel assets from corrosion, mainly in the oil, renewables and steel construction sectors. We have over 30 years experience and extensive knowledge in delivering practical solutions in supporting our customers with world class products for corrosion prevention.

Prevention of corrosion on steel is essential to extend the asset lifetime, optimise performance and minimise downtime for expensive maintenance work. Using Paint Test Equipment products ensures that industrial coatings are applied to the highest achievable quality standards of ISO compliance.

We supply small, medium and multinational companies with the full range of technologies and innovations in our unrivalled portfolio of products for our customers to grow their business and enhance profits through cost effective corrosion management equipment.

Paint Test Equipment is committed to providing proactive and innovative solutions to meet customer requirements for the highest quality, user friendly inspection equipment. Paint Test Equipment is the partner of choice.

Paint Test Equipment reserves the right to alter specifications without prior notice.

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