

Why Check for Porosity?



Even in areas where the dry film thickness is sufficient, air bubbles or voids can leave small areas with little or no coating coverage

 These uncovered areas can be very smallinvisible to the naked eye

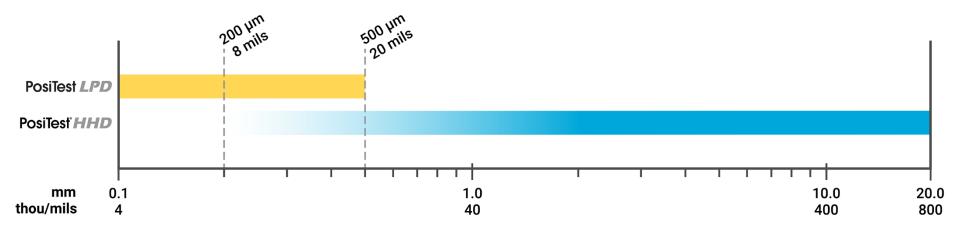
If not repaired, these pores (also known as pinholes or holidays) can become a starting point for corrosion, and cause premature coating and substrate failure



PosiTest LPD vs PosiTest HHD



The instrument used to detect pinholes or holidays depends on the thickness of the applied coating.



Low range of PosiTest HHD varies with standards

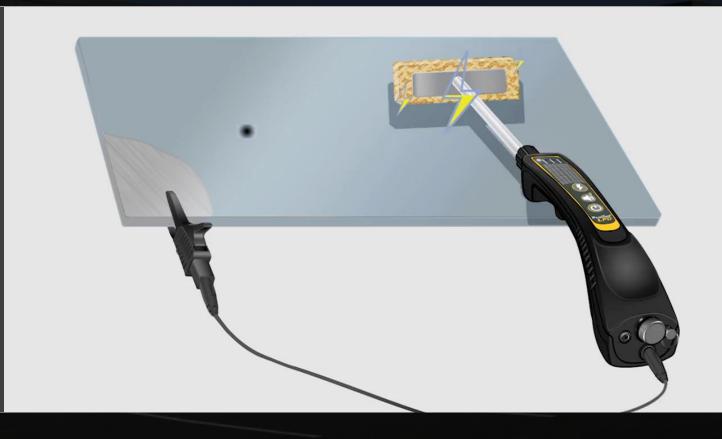




Principle of Operation



In use, an operator moves the moistened sponge over the coated surface. When a pinhole is encountered, current flows from the sponge into the substrate below. The current returns to the detector through the attached ground wire, completing the circuit and triggering audible and visible alarms.



Overview



Simple, three button interface

Voltage Selector

Alarm Enable

Power/ Battery Status



Four calibrated voltage/sensitivity selections, conforming to a wide variety of standards and specifications

Voltage Setting	Sensitivity
9 V	90 ΚΩ
67.5 V	80 ΚΩ
67.5 V	90 ΚΩ
90 V	400 ΚΩ



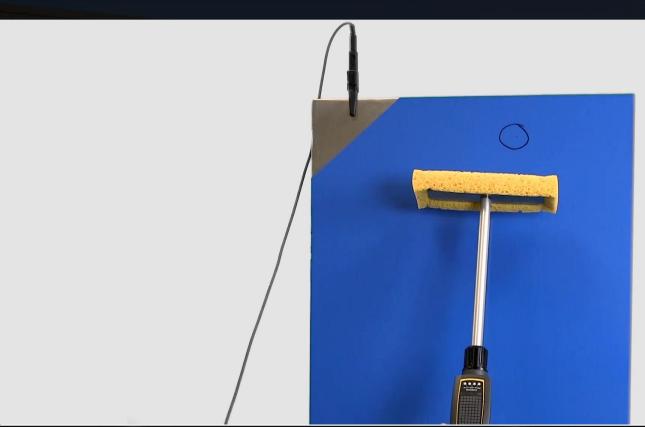
Key Feature: GroundSense™



If the connection to ground, or earth, is lost while testing, all lowvoltage pinhole detectors will fail to detect pinholes

GroundSense visibly reassures the user that the instrument is properly grounded

 When a connection to ground is detected, the indicator light for the selected voltage will change from blinking to steady



Models





Complete Kit

Includes the contents of the Basic Kit, adaptable sponge hardware and extension accessories

Basic Kit

Includes everything necessary to inspect, in a hard shell carrying case



Versatility- Extension Accessories

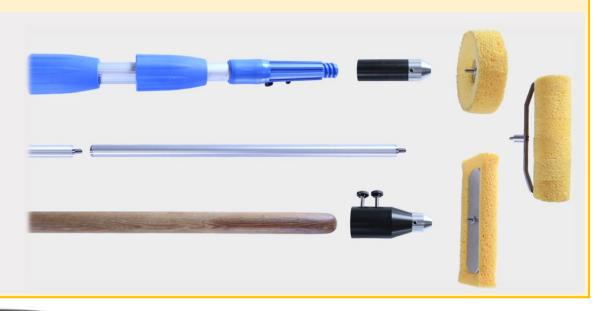


- In addition to the rectangle sponge included with the basic kit, the Complete Kit contains adaptable sponge hardware and extension accessories.
 - Use any of the sponge hardware options with any of the extension options

Threaded pole adapter (fits common paint roller thread)

Two extension rods- adds 0.6m of reach

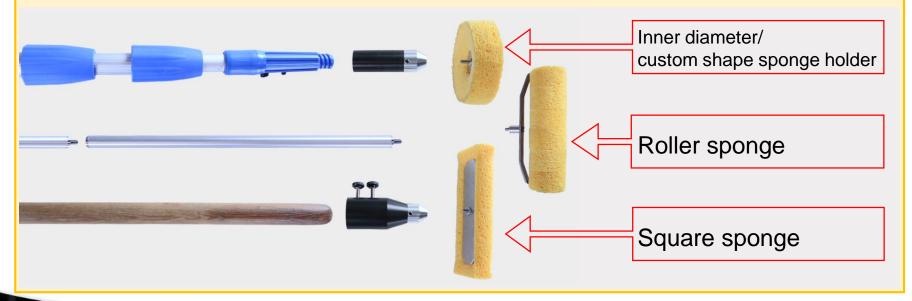
Universal adapter (connects to any pole < 3cm)



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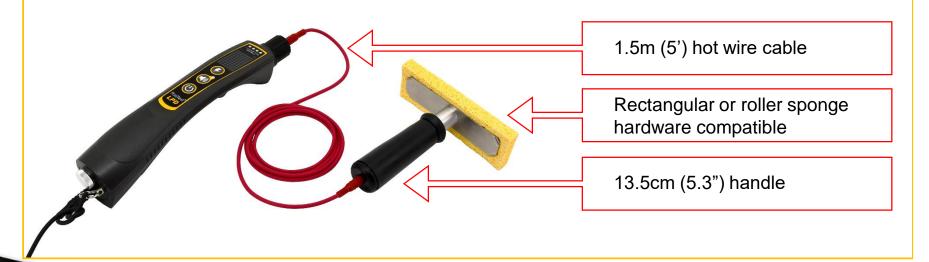
Versatility- Extension Accessories



PosiTest LPD Cabled Wand

Converts the PosiTest LPD Low-voltage Pinhole Detector into a cabled-wand style unit

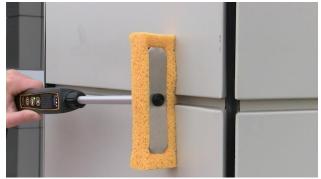
















Competitive Advantages





Weatherproof, dustproof, and shockproof- meets or exceeds IP65

Lightweight, balanced, ergonomic design

Uses 3 AAA batteries

Long form Certificate of Calibration included with each instrument

 Most competitive instruments do not meet published specifications GroundSense visibly reassures user that the instrument is properly grounded

Versatile attachments, with common threads and connectors

Two year warranty

Regulated voltage outputs will not drop under load



Calibration



Low-voltage porosity detectors should be calibrated

- It is vital to ensure that any porosity detector alarms at the sensitivity (resistance) specified by standards
- It is equally important to ensure the porosity detector maintains its voltage setting at the specified sensitivity

To ensure proper calibration, use the LPD Verifier (pictured) to simulate a defect, and check voltage using a certified voltmeter.

If a porosity detector is out of tolerance, pinholes and defects may be missed!

Our testing found that most competitive porosity detectors will not pass calibration









PosiTest HHD

High voltage Holiday Detector

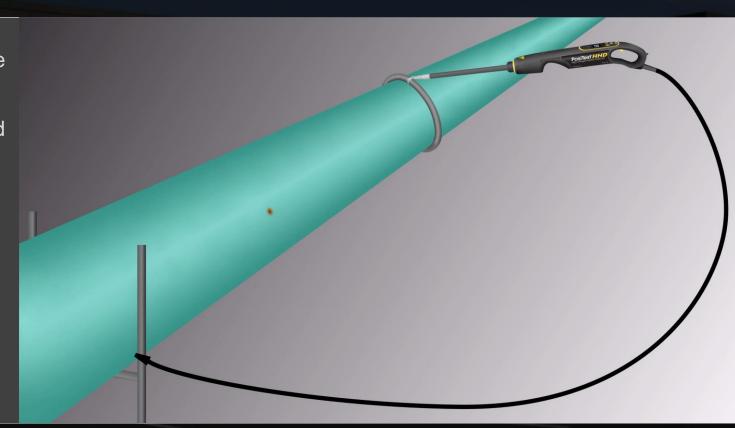




Principle of Operation

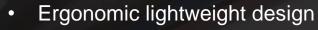


The charged electrode is passed over the coating, and when a holiday is encountered current flows from the electrode into the substrate below. The current returns to the detector through the ground wire, completing the circuit and triggering audible and visible alarm.



Features





- Voltage range: 0.5 to 35 kV
- Built-in certified voltmeter
- Regulated pulse DC voltage output that won't change under load



PosiTest HHD Kit





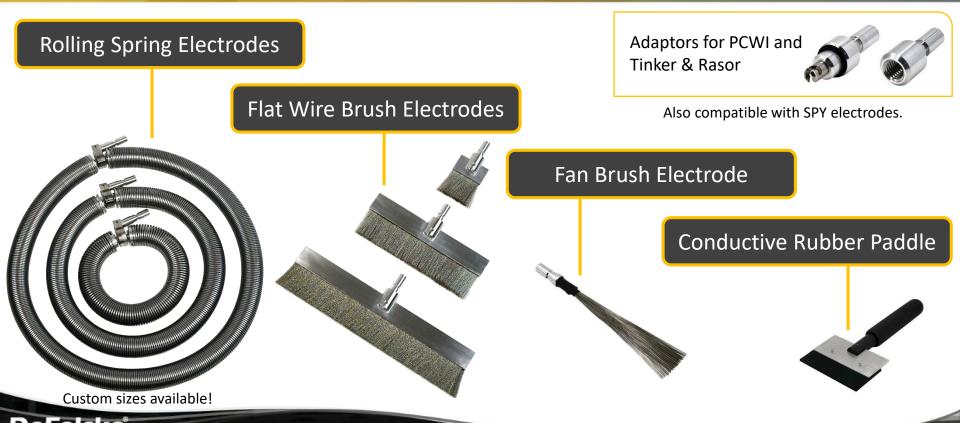
Kit Comes Complete

- PosiTest HHD
- 7.6 m (25') ground (earth) cable with ground clip
- Li-ion battery pack with built-in charge state indicator
- Smart charger with universal AC voltage input
- Stainless steel fan brush
- 50 cm (20") extension rod with thumb screw
- Shoulder strap
- Instruction Manual
- Durable Pelican Storm case
- Long Form Certificate of Calibration traceable to NIST
- Two year warranty



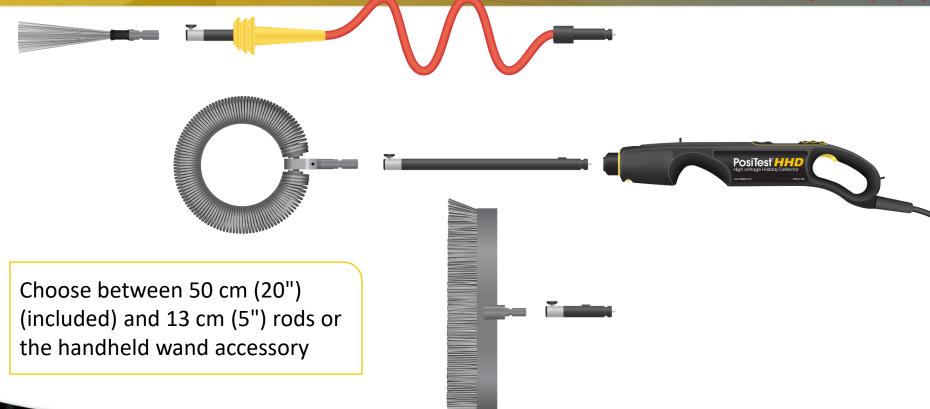
Electrode Options





Versatile





Defelsko The Measure of Quality

Handheld Wand Accessory



Optional handheld wand accessory converts the detector into a wand configuration ideal for testing hard-to-reach areas (suitable for voltages < 15 kV)









2 Ways to Set Voltage

Voltage Calculator

Choose one of 11 international standards then simply input the coating thickness to automatically calculate the required test voltage

Manually Adjust Voltage

Simply choose the voltage selection option from the menu, then use the plus and minus buttons to adjust





Alarm Modes





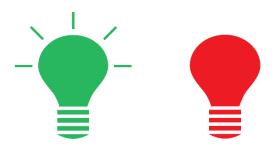
Audio alarm is OFF



The detector emits a continuous tone when high voltage is on and a loud alarm tone when a holiday is detected. This is the default audio alarm mode.



The detector emits a loud, continuous tone when high voltage is on and is silent when a holiday is detected.



Strobe Alarm

The PosiTest HHD uses a highintensity white Led to alert the operator when a holiday is detected. The strobe alarm can be turned ON or OFF.

Removable Smart Lithium-Ion Battery



Provides power for up to 40 hours of continuous measurement – fully rechargeable in 3 hours



Built-in charge indicator



PosiTest HHD Verifier



Standalone volt meter (crest meter, jeep meter) for verifying the accuracy and operation of ALL pulse type and DC holiday detectors

- Ideal for field/laboratory verification of pulse and continuous DC holiday detectors
- Wide measurement range: 0.5 35 kV
- Simple two step operation
- Lightweight/Portable requires no external power source

Voltage Range	0.5 – 35 kV
Resolution	0.5 kV – 1 kV: 10 Volt Steps 1 kV – 35 kV: 100 Volt Steps
Accuracy	±5%
Operating Temperature	-20° to 60°C (-4° to 140°F)





Competitive Advantages





Lightweight, ergonomic design provides comfortable all-day use Built-in certified voltmeter displays and regulates voltage at electrode

Long Form Certificate of Calibration

Regulated pulse DC voltage output – that won't change under load

Available handheld wand accessory

Voltage calculator feature

Included Pelican Storm Case Removable Smart lithiumion batteries

