

# New Guard Coatings Group

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# PosiTest<sup>®</sup> **HHD**

## **High voltage Holiday Detector**

Detects holidays, pinholes and other discontinuities using pulse DC



*Optional  
handheld wand  
with insulated  
cable*



**DeFelsko<sup>®</sup>**  
The Measure of Quality

# PosiTest<sup>®</sup> HHD

## Features...

### Simple

- Easy-to-use with bright, multi-color LCD
- Ready to measure – comes with everything needed for testing
- Audibly and visibly alerts when flaws/holidays are detected
- Lightweight, ergonomic design provides comfortable all-day use, reducing fatigue
- Voltage calculator feature – choose one of 11 international standards, and input the coating thickness to automatically calculate the required test voltage

### Durable

- Rugged, environmentally sealed ABS plastic enclosure
- Weatherproof, dustproof and shockproof
- Included Pelican Storm case with custom foam inserts for superior protection
- Two year warranty

### Accurate

- Built-in certified voltmeter (crest meter, jeep meter) displays and regulates the voltage at the electrode
- Long Form Certificate of Calibration included with each instrument
- Conforms to national and international standards including ISO, ASTM and NACE

### Versatile

- A wide range of rolling spring electrodes and wire brushes are available. Custom sizes available upon request.
- Optional handheld wand accessory converts the detector into a wand configuration ideal for testing hard-to-reach areas (suitable for voltages < 15 kV)
- Industry-standard connectors and adaptors for compatibility with nearly all existing electrodes
- User adjustable voltage range from 0.5 – 35kV

### Powerful

- Strobe light and loud audible alarms emitted when a holiday is detected. Audio alarm mode can be adjusted for differing environments.
- Removable Smart lithium-ion batteries provide power for up to 40 hours of continuous measurement

### Safe

- Press and hold Safety Trigger helps prevent accidental high voltage generation
- 7.6 m (25') ground (earth) cable with locking connector and spring clamp
- Shock proof/creep proof — internally sealed to minimize creep distance to high voltage components. Designed in accordance with IEC 61010-1.

### Accessories

**Handheld Wand** with 1.5 m insulated cable converts the detector to a wand-type instrument (not for voltages >15 kV)

**Extension Rods** choose between 13 cm (5") and 50 cm (20") rods

**Spring Connectors** connect the PosiTest HHD to DeFelsko or SPY rolling spring electrodes.

**Spring Couplers** thread onto rolling springs and attach to the Spring Connector

**HHD Adaptors** connect to spring and brush electrodes from other manufacturers — choose between PCWI and T&R adaptors (adaptor not required for SPY electrodes)

**PosiTest HHD Verifier** standalone voltmeter (crest meter, jeep meter) for verifying the accuracy and operation of ALL pulse type and DC holiday detectors



**DeFelsko<sup>®</sup>**  
Inspection Instruments

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**Made in U.S.A.**

### Specifications

<b>Output Voltage Range</b>	0.5 – 35 kV
<b>Output Voltage Adjustment</b>	0.5 kV – 1 kV: 10 Volt Steps 1 kV – 35 kV: 100 Volt Steps
<b>Output Accuracy</b>	±5%
<b>Pulse Duration</b>	10 µs
<b>Pulse Repetition Rate</b>	30 Hz
<b>Coating Thickness Range</b>	up to 20 mm (780 mils) <sup>†</sup>
<b>Typical Battery Life</b>	Based on selected voltage and load Ø 12" Rolling Spring @ 10kV, 40 hrs. Ø 40" Rolling Spring @ 10kV, 30 hrs.
<b>Operating Temperature</b>	-20° to 60°C (-4° to 140°F)

<sup>†</sup> Based on NACE SP0274-2011 recommendations.

**KIT COMES COMPLETE** with Holiday detector, 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, instructions, durable Pelican Storm case, Long Form Certificate of Calibration traceable to NIST, two year warranty

### SIZE:

64 cm x 6.4 cm x 13 cm  
(25" x 2.5" x 5")

### WEIGHT:

1.8 kg (4 lbs.)  
with battery  
with no electrodes

shown with optional  
electrodes and  
accessories



### Ordering Guide

<b>PosiTest HHD Kit</b>	HHDKIT
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Conforms to ASTM D4787/D5162/G62, ISO 29601,  
NACE SP0188/ SP0274/SP0490, AS3894.1

### Electrodes

#### Rolling Spring

steel pipe electrodes — assorted sizes available: 10 to 60 cm (4 – 24")  
Rolling springs include two pre-installed spring couplers.

#### Flat Wire Brush

stainless steel — assorted sizes available: 5 to 120 cm (2 – 48")

#### Replacement Fan Brush

stainless steel — 5 cm (2")

#### Conductive Rubber Paddle

10 cm (4") handheld paddle



**Custom sizes available upon request.**

**For a complete list of available electrodes visit [www.defelsko.com/hhd](http://www.defelsko.com/hhd)**

# PosiTest<sup>®</sup> **HHD**

## High voltage Holiday Detector

# Electrode Options

Rolling Spring Electrodes	
Rolling Spring Coil for 4" pipe (102 mm) OD	HHDSPRING4
Rolling Spring Coil for 6" pipe (152 mm) OD	HHDSPRING6
Rolling Spring Coil for 8" pipe (203 mm) OD	HHDSPRING8
Rolling Spring Coil for 12" pipe (304 mm) OD	HHDSPRING12
Rolling Spring Coil for 14" pipe (356 mm) OD	HHDSPRING14
Rolling Spring Coil for 16" pipe (406 mm) OD	HHDSPRING16
Rolling Spring Coil for 20" pipe (508 mm) OD	HHDSPRING20
Rolling Spring Coil for 24" pipe (610 mm) OD	HHDSPRING24

**Please Note:** Each spring includes two pre-installed spring couplers. A spring connector (HHDCONNECT) is required to attach the PosiTest HHD to the spring couplers. Custom sizes and bulk pricing available. Additional couplers (HHDCOUPLER - 2 pack) are available.

Flat Wire Brush Electrodes	
HHD Flat Brush 51 mm/2"	HHDFLTBRSH2
HHD Flat Brush 152 mm/6"	HHDFLTBRSH6
HHD Flat Brush 203 mm/8"	HHDFLTBRSH8
HHD Flat Brush 305 mm/12"	HHDFLTBRSH12
HHD Flat Brush 610 mm/24"	HHDFLTBRSH24
HHD Flat Brush 914 mm/36"	HHDFLTBRSH36
HHD Flat Brush 1219 mm/48"	HHDFLTBRSH48

Fan Brush Electrodes*	
HHD Fan Brush 152 mm/6"	HHDFANBRSH

\* The PosiTest HHD Kit comes complete with a Fan Brush.

Conductive Rubber Paddle	
HHD Conductive Paddle 102 mm/4"	HHDPADDLE

**Custom sizes available upon request.**

Use spring and brush electrodes made by other manufacturers with DeFelsko adaptors.

Compatibility Chart	
Manufacturer	Adaptor Ordering Code
SPY	not required <sup>†</sup>
PCWI	HHDPCWIADPT
Tinker and Razor	HHDTRADPT

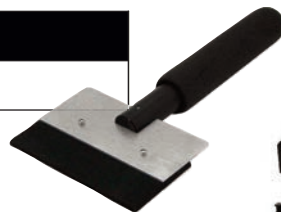
<sup>†</sup> The PosiTest HHD is compatible with SPY coils, brushes and accessories.



Rolling Spring Electrodes



Flat Wire Brush Electrodes



PosiTest HHD shown with optional electrodes and accessories

For a complete list of available electrodes visit [www.defelsko.com/hhd](http://www.defelsko.com/hhd)