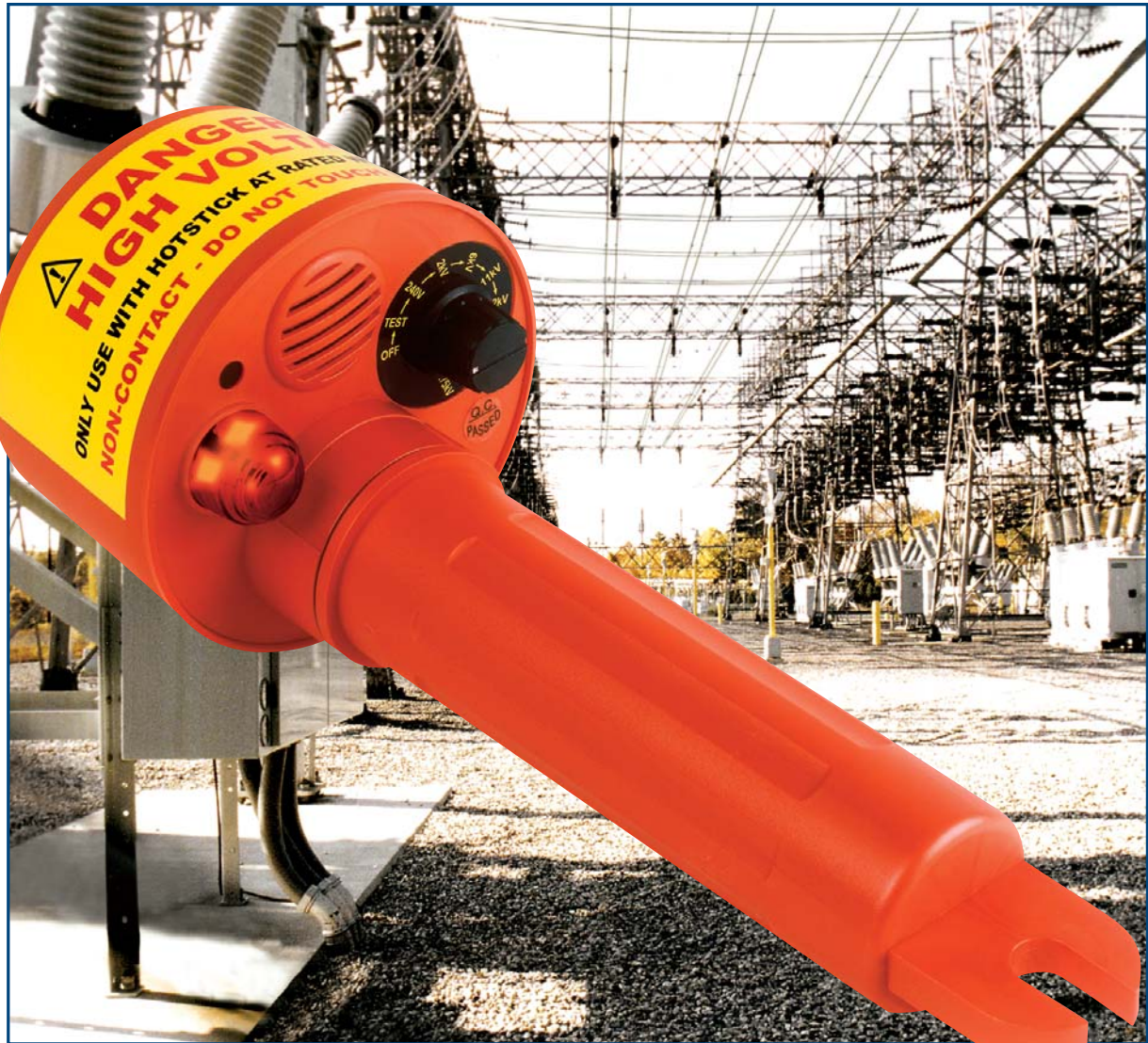


# Non-Contact High Voltage Detector Models 275HVD & 280HVD



The Models 275HVD and 280HVD are designed to detect the presence of high voltage without physical contact.

An eight position (Model 275HVD) and ten position (Model 280HVD) rotary switch selects the detection range. As the sensor is moved closer to the voltage carrying conductor, its sensor head picks up the radiated electric field.

Once the range threshold is reached, the buzzer sounds and a bright red warning light warns the operator of live conductors.

Model 275HVD has a self-test position that ensures that all circuitry and annunciators are working properly by energizing the complete system.

Model 280HVD has an automatic self-test that beeps every two seconds.

The Models 275HVD and 280HVD are powered by three standard Alkaline C cell batteries and can be used both in- and out-of-doors. A universal spline on the back-end facilitates attachment to any standard hot stick.



Model 275HVD checking for live voltage on main feeder

## Features

- Non-contact high voltage detector
- Wide range of detection; finds 80V to 275kV; one instrument fits all applications
- Eight switch-selectable voltage sensitivity ranges (Model 275HVD)
- Ten switch-selectable voltage sensitivity ranges (Model 280HVD)
- Lightweight, minimizes sway at the end of long hot sticks
- Audible and visual indication of live voltage
- Self-test ensures that all system functions and indicators are working properly by energizing the complete system (Model 275HVD)
- Automatic self-test beeps every two seconds (Model 280HVD)
- Digital filter rejects signals outside of 40 to 70Hz
- Designed for use with hot sticks incorporating a universal spline adapter

## Applications

- Non-contact detection of live voltages
- Check and detect live high voltage cables
- Find faults in cables
- Check grounding equipment
- Service neon lighting
- Trace live wires
- Check high frequency radiation
- Detect residual or induced voltages

# Specifications

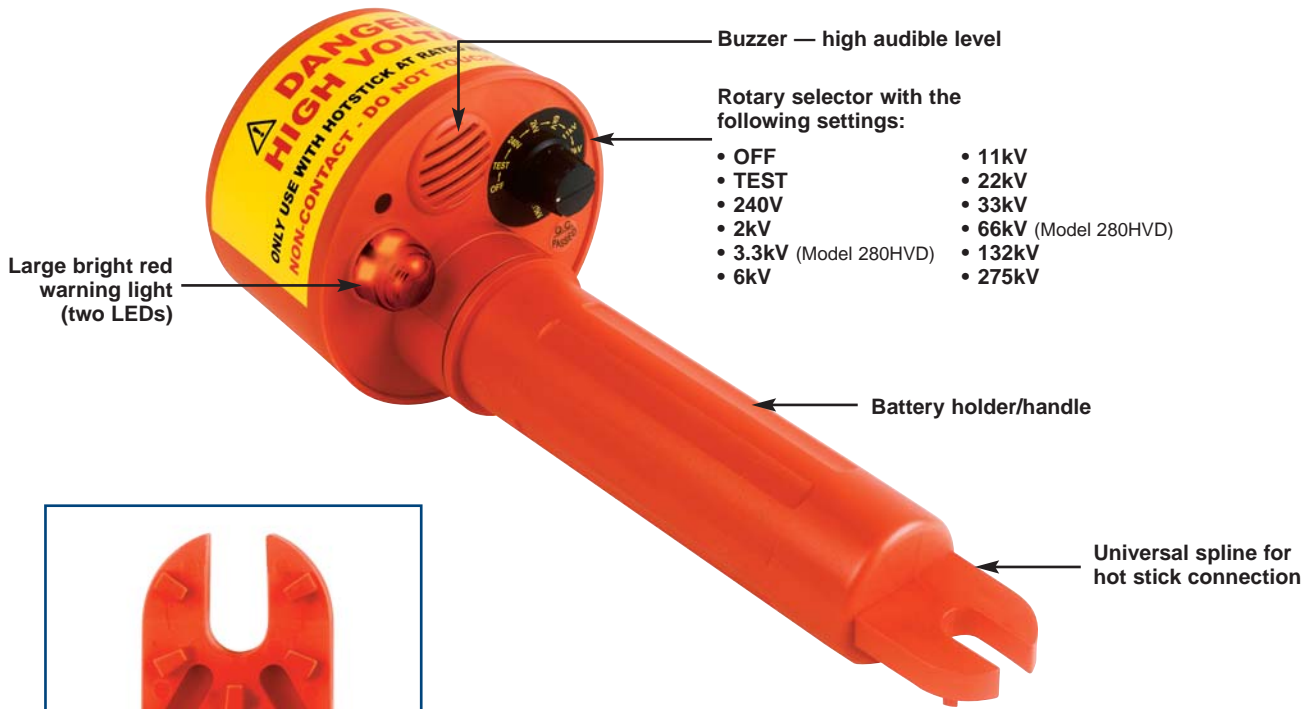
MODELS	275HVD	280HVD
<b>ELECTRICAL</b>		
Detection Frequency	40 to 70Hz	40 to 70Hz
Ranges	240V, 2kV, 6kV, 11kV, 22kV, 33kV, 132kV, 275kV	240V, 2kV, 3.3kV, 6kV, 11kV, 22kV, 33kV, 66kV, 132kV, 275kV
Detection	Selection range is detected at approximately 10" (25cm) from the voltage Greater detection distances can be obtained at lower voltage positions	
<b>MECHANICAL</b>		
Self Test	User selectable	Automatic
Indicators	Bright red LED and audible buzzer	Bright red LED and audible buzzer
Power Source	Three 1.5V C cell batteries	Three 1.5V C cell batteries
Low battery indication	-	Intermittent beeps
<b>ENVIRONMENTAL</b>		
Operating Temperature	5° to 130°F (-15° to 55°C)	
Storage Temperature	-4° to 150°F (-20° to 65°C)	
Humidity	0 to 93% RH @ 104°F (40°C)	



FUNCTION	275HVD	280HVD
Voltage Sensitivity Selector	✓	✓
Built-in Spline (Hot Stick Adapter)	✓	✓
Nylon Flame Retardant Material	✓	✓
Bright Red LEDs	Two	Four 
High Power/High Pitch Buzzer	✓	✓
LEDs/Buzzer Driven Independently	—	✓ 
LEDs/Buzzer Driven Together	✓	—
Pulsing Signal for Low Battery (no light)	—	✓ 
Vac Detect = Continuous Buzz and Light	✓	✓
Continuous Diagnostic/Test Signal	—	✓ 
Test Signal Position on Selector	✓	—
Battery Voltage Measurement – On-Line	—	✓ 
D.S.P. Type Band Pass Filter 40 to 70Hz	—	✓ 
Different Alerting Sounds and Light	—	✓ 
Watertight Enclosure	✓	✓
Fail-safe Design using Watch Dog Timer	—	✓ 
Internal Circuit Checked by Test Pulses	—	✓ 
Maximum Sensitivity if Switch Fails “Open”	✓	✓
Turn OFF if Switch Fails “Short Circuit”	—	✓ 
Standby “All OK” Quick Buzz then Quick Light	—	✓ 
Priority Alert System: Vac, Low Bat, OK	—	✓ 
Microprocessor Controlled	—	✓ 



# Construction



Universal spline for hot stick connection



Models 275HVD and 280HVD include a padded carrying case, three C cell batteries and user manual.

## ORDERING INFORMATION

## CATALOG NO.

**Non-Contact High Voltage Detector Model 275HVD** (240V to 275kV) Manual self-test. . . . . **Cat. #2131.12**

**Non-Contact High Voltage Detector Model 280HVD** (240V to 275kV) Automatic self-test. . . . . **Cat. #2131.13**

Includes three C cell batteries, padded carrying case and user manual

## Contact Us

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