

HVD High Voltage Detector

- Checks if HV system is alive or dead
- All weather use (indoor or outdoor)
- HVD13AC - 6,6-132 kV
- HVD32AC - 11-33 kV
- HVD33AC - 44-132 kV
- HVD52AC - 25-275 kV

Description

The Spirent Instruments range of capacitive high voltage detectors has been designed to meet the latest IEC standards.

A cone shaped plastic moulding houses the detector. The inner wall of the cone has a metallic screen coating to which the earth/ground parts of the circuit are connected. This screen coating is capacitively coupled to the earth/ground of the electric field and acts as a voltage divider with an internal sensing capacitor. In this manner, high voltage appearing at the electrode is divided down and the voltage across the sensing capacitor is proportional to the voltage at the electrode with respect to earth/ground.

A test button is mounted on the viewing face of the detector. When the button is pressed a red lamp flashes and an audible alarm sounds. This is the display for voltage PRESENT. However, when the button is released the display changes to a green flashing lamp. This is the display for voltage NOT PRESENT. The detector is then armed and ready for use. This armed condition lasts about 150 seconds.

At the narrow top end of the detector housing there is a red band which indicates the limit mark. By definition the limit mark indicates the physical limit to which the detector may be inserted between live components or may touch them. However, when the detector is used with a contact electrode the rear moulding of the extension covers the limit mark. The rear moulding is coloured red and it then constitutes the limit mark.

Technical Specification

Electrical	HVD13AC	HVD32AC	HVD33AC	HVD52AC
System Voltage (kV)	6.6 to 132	11 to 33	44 to 132	25 to 275
Threshold Range (kV)	2,5kV Non standard threshold voltages can be set outside the range to suit customers requirements (Threshold for HVD52AC is set at 25kV)			
Spark Protection	The detector will not be damaged as a result of spark discharge while making contact with the conductor under test			
Bridging Protection	The detector & its accessories will not cause flashover between live parts of the installation or between live parts of the installation & earth/ground			
Current Consumption	30 mA maximum			
Test Button	Tests & arms the detector when pressed & released			
Visual Indicator (2Hz)	Red lamp (voltage present), green lamp (safe)			
Audible Indicator	Buzzer - 3.1 kHz tone modulated at 2 Hz - 70 dB (1.5 metres)			
Mechanical				
	Length (mm)	Diameter (mm)	Material	Other
Y Electrode	35	40	Stainless steel	



Model Specification

Standard Accessories	Carry bag Cleaning kit Rose connector Y contact
Dimensions (mm)	180(L) x 100mm(Dia.)
Power Source	9V Battery
Weight	600g



Supplied by :

Test and Measurement Instruments C.C.