

HVD

High Voltage Detectors



Features:

- Automatic alarming above threshold voltage as default
- Fast response time , less than 1 second
- High Impact ABS body
- Proven in the field world-wide
- Self test facility
- Easy to use and Lightweight (0.6kg)
- Suitable for indoor/Outdoor use
- -25°C to +55°C operating temperature range
- Shock & drop resistant
- Standard safety yellow (other colours available)
- Various rod adaptors available to suit different operating rod styles
- Easy access for battery replacement

High Voltage Detectors (HVD's) are widely used throughout the electricity industry to determine that high voltage lines are de-energized prior to work being carried out, ensuring the safety of personnel. Designed to comply with relevant IEC standards, HVD's are available for use on system voltages up to 275kV.

HVD's are battery operated electronic contact devices that give clear indication of the status of the line under test both visually, by means of super-bright LED's and audibly with a high intensity buzzer. This ensures clear indication even in conditions of bright sunlight and high background noise.



Overhead Line Testing

The voltage setting to trigger activation (or threshold setting) can be set in accordance with IEC standards or in consultation with the user where detectors are used on a range of system voltages. All detectors have the facility to self check before and after use.

Each HVD standard kit comprises the following components housed within a purpose designed ABS heavy duty carry case:

- High Voltage Detector (HVD)
- Y Contact electrode
- Hook Contact Electrode
- Rod adaptor
- Polymer cleaning kit
- Instruction Manual

High Voltage Detector kit details

High Voltage Detectors (HVD's)

Visual Indication (Safe Condition): Green LED flashes at 2Hz

Voltage Present (Alarm Condition): Red LED flashes at 2Hz and Buzzer sounds with 3.1kHz tone, modulated at -70dBA at 1.5m.

Response Time: <1 second

Battery: 9v PP3-C IEC 6LF22



Contact Electrodes

Three sizes of aluminum hook are available in 40, 60 and 100mm. Alternatively, a straight 40mm stainless steel stud electrode, or Y contact electrode can be supplied.



Contact Electrode Extensions

To distance the detector away from any source of interference. Four sizes of electrode extension are available in 100, 250, 650, and 1000mm.



Rod Adaptors

Rod Adaptors are available for connecting to various operating poles shown from left to right are Bowthorpe, KP (Karl Pfisterer) and Universal Starwheel types .



Proving Unit

In addition to the self-test facility an external battery operated proving unit is available to check the completely assembled kit (threshold voltage dependent).

Output Voltage: 1100v P to P \pm 100v into a 20M Ω load.



High Voltage Detector types

A wide range of models are available to cover most distribution and transmission voltages used throughout the world. The following table contains a list of all the variations of High Voltage Detectors available.

HVD Type	Description	System Voltage	Threshold Voltage
HVD01/2A	HVD 11KV 2.5KV TH MA	11kV	2.5KV
HVD01/2B	HVD 11KV 1KV TH MA	11kV	1KV
HVD03/2A	HVD 33KV 4KV TH MA	33kV	4KV
HVD03/2B	HVD 33KV 5KV TH MA	33kV	5KV
HVD03/2C	HVD 33KV 14KV TH SA	33kV	14KV
HVD03/2D	HVD 25KV 7.5KV TH SA	25 - 30kV	7.5KV
HVD04/2A	HVD 11/33KV 3.6KV TH MA	11kV / 33kV	3.6KV
HVD04/2B	HVD 11/33KV 2.5KV TH MA	11kV / 33kV	2.5KV
HVD04/2C	HVD 11/33KV 1.2KV TH MA	11kV / 33kV	1.2KV
HVD05/2A	HVD 66KV 8KV TH MA	66kV	8KV
HVD06/2A	HVD 132KV 9KV TH MA	132kV	9KV
HVD06/2B	HVD 132KV 15KV TH MA	132kV	15KV
HVD06/2C	HVD 132KV 12KV TH MA	132kV	12KV
HVD06/2D	HVD 132KV 20KV TH MA	132kV	20KV
HVD07/2A	HVD 66/132KV 9KV TH MA	66/132kV	9KV
HVD08/2A	HVD 6.6KV 1.5KV TH MA	6.6kV	1.5KV
HVD08/2B	HVD 6KV 200V TH SA	0-6kV	200V
HVD09/2A	HVD 3.3/6.6KV 0.75KV TH MA	3.3/6.6kV	0.75KV
HVD10/2A	HVD 6.6/33KV 1.2KV TH MA	6.6/33kV	1.2KV
HVD11/2A	HVD 11/66KV 2.5KV TH MA	11/66kV	2.5KV
HVD12/2A	HVD 2.2/3.3KV 0.5KV TH MA	2.2/3.3kV	0.5KV
HVD13/2A	HVD 6.6/132KV 2.5KV TH MA	6.6/132kV	2.5KV
HVD13/2B	HVD 6.6/132KV 1KV TH MA	6.6/132kV	1KV
HVD14/2A	HVD 33/132KV 6KV TH MA	33/132kV	6KV
HVD14/2B	HVD 33/132KV 6KV TH MA	33/132kV	6KV
HVD15/2A	HVD 11/132KV 3.8KV TH MA	11/132kV	3.8KV
HVD16/2A	HVD 33/66KV. 10KV TH MA	33/66kV	10KV
HVD16/2B	HVD 33/66KV 4KV TH MA	33/66kV	4KV
HVD17/2A	HVD 250KV 1KV TH SA	250kV	1KV
HVD31/2A	HVD 11KV 0.7KV TH SA	11kV	0.7KV
HVD32/2A	HVD 11/33KV 2.5KV TH SA	11/33kV	2.5KV
HVD33/2A	HVD 44/132KV 10KV TH SA	44/132kV	10KV
HVD34/2A	HVD 11/33KV 1.5KV TH SA	11/33kV	1.5KV
HVD34/2B	HVD 11/33KV 2.5KV TH SA	11/33kV	2.5KV
HVD35/2A	HVD 2-11KV DEAD BREAK TESTER	2-11kV	100V
HVD36/2A	HVD 3.3/96KV 1.5KV TH SA	3.3/96kV	1.5KV
HVD37/2A	HVD 66/132KV 9KV TH SA	66/132kV	9KV

High Voltage Detector types

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HVD38/2A	HVD 132KV. 9KV TH SA	132KV.	9KV
HVD40/2A	HVD 110/220KV 17KV TH SA	110/220KV	17KV
HVD41/2A	HVD 22/33KV 6.5KV TH SA NZ SPE	22/33KV	6.5KV
HVD42/2A	HVD 50/220KV 15KV TH SA NZ SPE	50/220KV	15KV
HVD43/2A	HVD 11/33KV 2KV TH SA NZ SPEC	11/33KV	2KV
HVD44/2A	HVD 11KV 1.5KV TH SA	11KV	1.5KV
HVD45/2A	HVD 22/115KV. 4KV TH SA	22/115KV	4KV
HVD45/2B	HVD 22/115KV. 5KV TH SA	22/115KV	5KV
HVD46/2A	HVD 22/24KV. 1KV TH SA	22/24KV	1KV
HVD46/2B	HVD 22KV 2.5KV TH SA	22KV	2.5KV
HVD47/2A	HVD 33KV 1KV TH SA	33KV	1KV
HVD47/2B	HVD 33KV DEAD BREAK TESTER	33KV	0.6KV
HVD47/2D	HVD 34KV DEAD BREAK TESTER	34kv	0.6kv
HVD47/2E	HVD 66KV DEAD BREAK TESTER	66kv	0.6kv
HVD48/2A	HVD 1/245KV. 0.4KV TH SA	1/245KV	0.4KV
HVD49/2A	HVD 11/220KV 2.5KV TH SA	11/220KV	2.5KV
HVD50/2A	HVD 2.4/36KV 0.75KV TH SA	2.4/36KV	0.75KV
HVD52/2A	HVD 275KV 25KV TH SA	275KV	25KV
HVD53/2A	HVD 15/85KV 2.5KV TH SA	15/85KV	2.5KV
HVD54/2A	HVD 10/38KV 4.8KV TH SA	10/38KV	4.8KV
HVD55/2A	HVD 10/36KV 2.5KV TH SA	10/36KV	2.5KV
HVD55/2B	HVD 12/36KV 2.5KV TH SA	12/36KV	2.5KV
HVD56/2A	HVD 230V 12KV TH SA	230KV	12KV
HVD57/2A	HVD 5/36KV 1KV TH SA	5/36KV	1KV
HVD57/2B	HVD 5/36KV	5/36KV	1KV
HVD57/2C	HVD 36KV 5KV TH SA	36KV	5KV
HVD58/2A	HVD 12kv 2.5kv TH SA	12kv	2.5KV
HVD59/2A	HVD 25/33kv 9kv TH SA	25/33kv	9KV
HVD60/2A	HVD 60/220kv 15kv TH SA	60/220kv	15KV
HVD61/2A	HVD 33/275kv 6kv TH SA	33/275kv	6KV
HVD62/2A	HVD 600V/110kv 600V TH SA	600/110kv	600V
HVD63/2A	HVD 69kv 8kv TH SA	69kv	8KV
HVD64/2A	HVD 3.4kv 1kv TH SA	3.4kv	1.0KV
HVD64/2B	HVD 3.3kv 0.75kv TH SA	3.3kv	0.75kv
HVD65/2A	HVD 6.6/38kv 1.2KV TH SA	6.6/38kv	1.2KV
HVD66/2A	HVD 3.3/33kv 1kv TH SA	1.5/36kv	1KV
HVD66/2B	HVD 1.5/36kv 1kv TH SA	1.5/33kv	1KV
HVD67/2A	HVD 161kv 12kv TH SA	161kv	12KV
HVD68/2A	HVD 150kv 12kv TH SA	150kv	12KV