

# HV Indicators

## Portable, neon and digital potential indicators for confirming voltage on earthed neutral systems

These instruments let you confirm the presence of voltage on earthed neutral electrical systems. They conform in design lengths to the recommended creepage and safety standards.

Each model features high grade PVC tubing and incorporates encapsulated resistor chains. There's a PH3 proving unit for additional safety and should be used before and after the voltage indicator's used.

The digital reading instruments provide voltage measurements and are supplied with detachable earth lead, battery charger and PH3 proving unit.

### Key Features:

#### Digital Readout

- Use as a potential indicator to determine presence of voltage or as a voltmeter
- Robust display housing
- No switches
- Provides direct reading of voltage measurements
- Low battery indicator
- Supplied with battery charger
- Specifically designed carrying case for unit and accessories

Unit	System Voltage*	Features	Part No.
KDIE/15D	15KV max	Resolution-10V	109A910
KDIE/33D	33KV max	Resolution-100V	109A911

\*Earthed neutral system

#### Neon Indication

- Duplicate neon indicators within shock resistant sleeves
- Permanently connected earth cable
- Hand guards on all elements
- Direct access to vertical or horizontal metal clad switch gear
- UK Electricity Council Approval list G9

Unit	System Voltage*	Features	Part No.
KDIE	1KV - 11.5KV		113A916
KDIE/KAD	1KV - 11.5KV	KAD Audio Alarm	113A915
KDIE/19	1.5KV - 19KV		113A914
KDIE/19S	1.5KV - 19KV	AC Voltage only	113A913
KDIE/22	3KV - 22KV		113A912
KDIE/33	3KV - 33KV		113A911



## Technical Specification

### TESTS

Indicator Type	Neon Indicator					Digital Reading	
Indicator Type	KD1E	KD1E/19	KD1E/19S	KD1E/22	KD1E/33	KD1E/15D	KD1E/33D
Maximum System Voltage	11kV	19kV	19kV	22kV	33kV	15kV	33kV
Maximum Voltage to Earth	6.6kV	11kV	11kV	12.5kV	19kV	8.6kV	19kV
Threshold Voltage	300V	300V	300V	300V	300V		
Measuring Range						0.00kV-8.6kV	0.00kV-19.0kV
Resolution						10V	100V
Sensitivity	AC/DC	AC/DC	AC Only	AC/DC	AC/DC	AC/DC	AC/DC
Circuit Current (IEC 61234-2)	2.3mA nominal @ 6.6kV	0.7mA nominal @ 11kV	0.9mA nominal @ 11kV	3.5mA nominal @ 12.5kV	1.1mA nominal @ 19kV	0.5mA nominal @ 8.6kV	1.1mA nominal @ 19kV
Dielectric Leakage Current (IEC 61234-2)	7µA nominal @ 13.8kV	11µA nominal @ 22.8kV	12µA nominal @ 22.8kV	12µA nominal @ 26.4kV	17µA nominal @ 40kV	9µA nominal @ 18kV	17µA nominal @ 40kV
Length (mm)	330	330	330	665	670	600	600
Diameter (mm)	25	25	25	25	25	25	25
Handle Length (mm)	105	105	105	90	250	235	235
Hand Guard Height (mm)	23.5	23.5	23.5	23.5	23.5	23.5	23.5
Contact Electrode Type	Domed	Flat	Flat	Domed	Flat	Domed	Domed

Extension Rods	1.5m Straight	90°	120°
Maximum System Voltage	33kV	15kV	33kV
Dielectric Leakage Current	140µA nominal @ 40kV	50µA nominal @ 18kV	130µA nominal @ 40kV
Length	150cm	78cm	78cm
Diameter	25cm	25cm	25cm
Contact Electrode Type	"V" form	Domed	Domed

### ACCESSORIES

Unit	Features	Part No.
PH3	■ Proving unit for proof testing high voltage indicators	112A913 (domed)
	■ High voltage output 1200V -1500DC	112A921 (flat nose)
Bent End Adaptors	■ Self test facility	
	■ Avoids use of known supply points or bulky test equipment	
Extension Rod	■ 90° or 120°	141A900 – 90°
	■ Suitable for use on vertical type switchgear	141A912 – 120°
Extension Rod	■ 1.5m extension rod for use on overhead lines	141A901
	■ Suitable for use with KDIE/15D, KDIE/33D, PR15D and PR33D	