

# HV PHASING UNITS

Phase comparison equipment.



## PR15D / PR33D Accessories (included)

- 1 x Proving Unit
- 1 x Battery Charger
- 2 x Overhead Line Extensions (1.5m)
- All leads and instructions
- Supplied with carrying case
- Bent adaptors available for use with switch gear

The PR11 provides a means of phase comparison at the point of paralleling two circuits, without the interposition of voltage transformers or secondary wiring earthed neutral systems. A neon type instrument, it is designed for use on earthed neutral systems up to 11KV. The PR15D / PR33D units enable phase angle comparison on earthed neutral systems up to 15KV and 33KV respectively.

The digital reading instruments provide voltage measurements and are supplied with detachable earth lead, allowing the digital leg to be used as a voltage indicator, independently from the phasing leg.

# HV PHASING UNITS SPECIFICATIONS

Indicator Type ▶	Neon Indication		Digital Reading		
	PR11	PR15/D Digital Leg	PR15/D Phasing Leg	PR33D Digital Leg	PR33D Phasing Leg
Maximum System voltage	11kV	15kV	15kV	33kV	33kV
Maximum Voltage to earth	6.6kV	8.6kV	8.6kV	19kV	19kV
Threshold voltage	300V				
Measuring Range		0.00kV - 8.6kV		0.00kV - 19.0kV	
Resolution		10V		100V	
Sensitivity	AC/DC	AC/DC		AC/DC	
Circuit current (IEC 61234-2)	0.9mA nominal @11.5kV	0.5mA nominal @15kV	0.5mA nominal @15kV	0.9mA nominal @33kV	0.9mA nominal @33kV
Dielectric leakage current (IEC 61234-2)	25µA nominal @13.58kV	7µA nominal @ 18kV	7µA nominal @ 18kV	23µA nominal @ 40kV	17µA nominal @ 40kV
Length (mm)	330	600	670	600	670
Diameter (mm)	25	25	25	25	25
Handle length (mm)	105	235	240	235	240
Hand guard height (mm)	23.5	23.5	23.5	23.5	23.5
Contact Electrode Type	Domed	Domed	Domed	Domed	Domed

## PR15D / PR33D Specifications

### Features

- Provides a means of phase angle comparison and indication of phase angle voltage at the point of intended paralleling of two circuits on neutral earthed systems. Both units are digital instruments
- Chart provides a means of checking phase angle difference of circuits paralleled
- Kit comprises two elements with resistor chains, one with digital indicator and the second a phasing rod

Unit	Voltage*	Features	Part No.
PR/15D	15kV Max	Resolution-10V	109A912
PR/33D	33kV Max	Resolution-100V	109A913

\*Earthed neutral system

## PR11 Specifications

### Features

- For use on 1kV to 11.5kV systems
- PVC hand guards on handles of elements
- Neon indicator enclosed in shock resistant sleeve
- Direct areas possible to all types of switch gear
- Complies with UK Electricity Council Engineering recommendation G9

**Part No:** 113A910

Test Equipment Depot - 800.517.8431 - 99 Washington Street Melrose, MA 02176

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