

HV Phasing Units

Phasing rods for use on systems up to 3kV, 11kV or 15kV

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. It is supplied as standard with a carry case and operating instructions.

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 a detachable earth lead, allowing the digital leg to be used as a voltage indicator, independently from the phasing leg.

The PR15D and PR33D are supplied as standard with a PH3 proving unit, PSU100 battery charger, 2 x 1.5m straight extension rod, 3m earth lead and a carry case.

Key Features:

PR15D / PR33D

- 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.
PR15D	15kV max	Resolution-10V	109A912
PR33D	33kV max	Resolution-100V	109A913

*Earthed neutral system

PR11

- 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

Find out more:



www.seaward.co.uk/phasingunits
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PR11



PR15D/PR33D



Technical Specification

TESTS

Indicator Type	Neon Indication	Digital Reading			
Indicator Type	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	1.65kV (nominal)				
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	33cm	60cm	67cm	60cm	67cm
Diameter	2.5cm	2.5cm	2.5cm	2.5cm	2.5cm
Handle Length	10.5cm	23.5cm	24cm	23.5cm	24cm
Hand Guard Height	23.5cm	23.5cm	23.5cm	23.5cm	23.5cm
Contact Electrode Type	Domed	Domed	Domed	Domed	Domed

ACCESSORIES

- 1 x Proving unit
- 1 x Battery charger
- 2 x Overhead line extensions (1.5m)
- All leads and instructions
- Supplied with carrying case