

## HIGH VOLTAGE MULTIFUNCTION PHASING STICKS



PC 7K

CE

PC 11K

PC 22K

PC 33K

PC 44K

### FEATURES

- Designed to Exceeds VDE 0681 part 5.
- No user's assembled parts.
- Dual Color Coded Scale (% , Vac).
- Neon indicator lit when >1200Vac.
- Light weight, Robust & Compact.
- Carry Case included.
- Compare between Phases.
- Measure and test Phase to Earth.
- High Quality Fiberglass wound Rod.
- Self Powered operation -No Battery-.
- DC version available.
- Measure Phase to Phase.
- Hi immunity to interference fields.
- Suitable for indoor and outdoor use.
- Current is limited to  $\pm 1$  milli-ampere
- Grounded or Ungrounded systems.
- Voltage Color Coded -O-Y-G-B-R.
- Factory Test Certificates.
- Meets IEC 61481:2001

This NEW PC range of High Voltage Multifunction Phasing Sticks are: all-in-one, a Phase Comparitor with color coded scale indication, a Voltage Detector with Neon Indication and a Scaled Voltmeter. They are available in five models for applications up to 44kV systems (6.6kV, 11kV, 22kV, 33kV and 44kV).

The NEW PC range of Multifunction Phasing Sticks utilizes a long established technique to detect and measure High Voltages and perform phasing tests. These Dual Poles instruments incorporates modern, high quality glass fibre front end, composite polyurethane main body molding to give tough and very light weight construction and superior safety features. They have Analog Color Coded Dual Scales and Neon indication.

They are not just VDE0681 part 5 compliant and IEC1243-2. They are practical and efficient. Because of their multifunction capabilities, you do not need to buy separates instruments, You can therefore stay within your budget without compromise.

They are supplied complete with instruction manual and two FACTORY test report certificates and, optionally, a calibration certificate. They are housed in a superb High Quality modern Plastic Case with shock absorbing foam. The New PS range is self powered and does not requires battery. They are suitable for indoor and outdoor use (in dry weather). They do not require dismantling or re-assembling and do not have any user's assembled parts, so eliminating the risks of assembly mistake and accidents during High Voltage Work in a breakdown situation.

The NEW PC range does not have any dangerous, user selectable/assembled metal parts exposed to high voltage, thus, the user can't be exposed to lethal voltage while handling or testing with the new PC range. They are over-designed for increased user protection and are lighter than any other sticks on the market today. The indicator has been screened for high immunity to interference fields.

They determine the voltage and positively identify phases up to 44kV. We have measuring ranges from 6.6kV up to 44kV systems but others voltages can be manufactured on request.

Fiberglass is of hot stick quality and tested to IEC specs (100kV / 300mm for 1 min). All front end (resistors) are encapsulated. These analog Multifunction Phasing Sticks are ideally suited for testing of grounded or ungrounded systems. Important applications include checking voltage fuses, testing for correct phase connections, and for absence of high voltage on de-energized lines or apparatus. The Dual scale read direct (no multiplier) in kVac or in % of full scale and is color coded (Green = in phase Red = out of phase). A Bright neon is included on the scale for easy visibility indoor and it has dual purpose. The neon is also a detector and start to lit when the voltage across the poles is higher than 1200Vac. In case of unlikely failure of the analog scale indicator, the neon can be used as voltage detector.

Our Manufacturing process and method ensure that every product is not just fully functional and calibrated after the assembly lines, but also within tight specifications tolerances before leaving the strict quality control of the factory. They are then re-checked, re-calibrated (optionally) and certified by an independent recognized authority. All our PC testers are versatile and single range for added safety. They have low metal content and nylon is used wherever possible. They are equipped with two fixed-length poles connected by a strong flexible, insulated cable. Hand guards are standard on all models. They are easy to handle, light weight, well insulated and designed to ensure maximum operator safety.



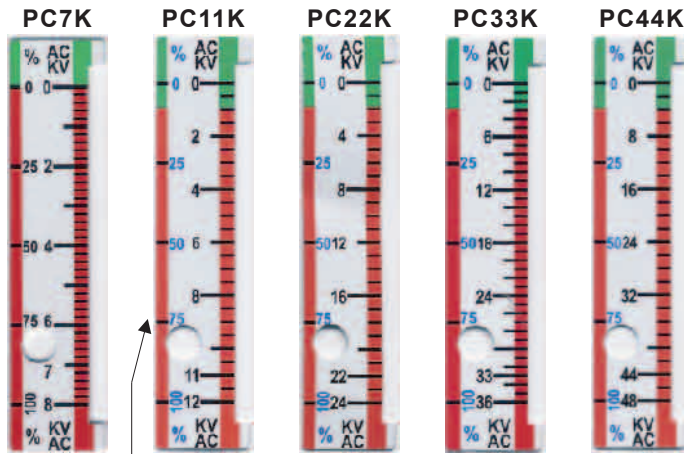


**STANDARD**

# Test & Measuring Instruments

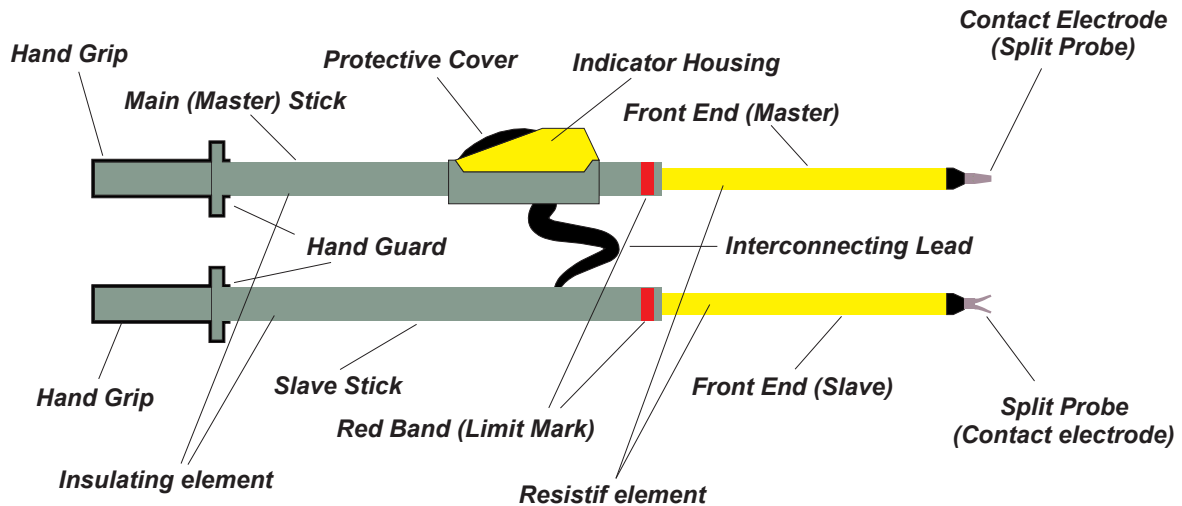
## HIGH VOLTAGE MULTIFUNCTION PHASING STICKS

Scales (samples)



Neon Indicator

Accessories



**Range of Models**

- Models are available to cover system voltages from 1kV to 44kV @50 or 60Hz.
- Contact the factory for information on models suitable for other Voltages.
- All models have Neon and Analog Panel Meter Indicators.
- The following models are available as standard Instruments :

Model	System Voltage Voltage	Full Scale Voltage	Maximum Voltage
PC7K	6.6kV	8kV	9kV
PC11K	11kV	12kV	15kV
PC22K	22kV	24kV	30kV
PC33K	33kV	36kV	40kV
PC44K	44kV	48kV	55kV

**SPECIFICATIONS**

Electrical	PC7K	PC11K	PC22K	PC33K	PC44K
Total Resistance	4.48M $\square$	6.78M $\square$	10.82M $\square$	19.68M $\square$	26.8M $\square$
Response time	<1Sec	<1Sec	<1Sec	<1Sec	<1Sec
Neon Threshold	1.2kV	1.2kV	1.2kV	1.2kV	1.2kV
Neon Lit Fully @	1.5kV	1.5kV	1.5kV	1.5kV	1.5kV

Mechanical	PC7K	PC11K	PC22K	PC33K	PC44K
Length of Handle	775mm	775mm	775mm	775mm	775mm
Length Front End	400mm	400mm	500mm	665mm	820mm
Total Length	1.175M	1.175M	1.275M	1.440M	1.595M
Total Weight	2.1kG	2.1kG	2.2kG	2.4kG	2.5kG

Handle Materia Composite Material with Polyurethane  
Front Endl Fiber Glass Wound Tubing

**Environmental**

Operating temperature : -25° C to +55° C  
Operating Humidity : 20 to 96% RH.

*Due to our policy of constant improvement and development, we reserve the right to change specifications without notice. Contact the factory for the latest product specifications.*

STANDARD ELECTRIC WORKS CO., LTD.



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35 Vantage Point Drive // Rochester, NY 14624 // Call 1.800.800.5001