

**SOCKET
&SEE**

VIP 200

Two Pole Voltage Indicator with
continuity and phase rotation

Instruction Manual & Specification

Ordering Information	
Item	Supplier Code
Socket & See VIP 200	SOC/VIP200
Included	
Socket & See VIP 200	
Product Manual	
2 x AAA (LR03) Batteries	
Optional Accessories	Supplier Code
Socket & See SP400 Proving Unit	SOC/SP400



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


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Socket & See is a trading division of UK Test Instruments Ltd.

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SnS043v1

1. Safety

1.1 Equipment Markings

	Caution - refer to this instruction manual
	Construction is double insulated
	Product should be recycled as electronic waste
	Conformity to EU standards
CAT IV	<p>Measurement Category IV is applicable to test and measuring circuits connected at the source of the building's low-voltage MAINS installation. This part of the installation is expected to have a minimum of one level of over-current protective devices between the transformer and connecting points of the measuring circuit.</p> <p>Due to these high short-circuit currents (above 50kA) which can be followed by a high energy level, measurements made within these locations are extremely dangerous. Great precautions shall be made to avoid any chance of a short circuit.</p> <p>Examples of CAT IV are measurements on devices installed before the main fuse or circuit breaker in the building installation.</p>

1.2 Operational Safety

The VIP 200 is designed to be used by skilled persons in accordance with safe methods of work. If the VIP 200 is used in a manner not specified by Socket & See, the protection provided by it may be impaired.

Inspect the product before using. If any damage is visible; such as cracks in the casing, damage to any accessories, leads or probes or ingress of moisture, the unit should not be used.

Keep fingers behind the finger guards. Avoid touching a free prod while the other prod is in contact with an electrical circuit. Avoid obscuring the indicator LED's during use. This tester has been designed to be used with suitable PPE including insulated gloves if required. Do not use in wet conditions. Do not use on circuits where the electrical potential exceeds 690V.

To maintain safety, check the correct operation of the VIP 200, both before and after use, with a true AC output proving unit such as the Socket & See SP400 or on a known live source.

Specification	
Operating Conditions	-10°C to 55°C, 85% RH
LED Indication	50 - 110 - 230 - 400V LED illuminates at nominal value -15%
Batteries	2 x AAA (LR03)
Operating Conditions	-10 to +55°C at 85% RH
Overvoltage Category	CAT IV 600V, CAT III 1000V
Dimensions	300H x 68W x 38D (mm)
Weight	218g (without batteries)
Prods	GS38 Compliant
IP Rating	IP54
Safety Compliance	IEC 61243-3 , 61010-1
Interconnecting Cable	Silicone rubber, Double insulated, Wear indicating
Rotary Field Indication	
Voltage Range	100 to 690VAC
Frequency Range	50 / 60 Hz
Measurement Principle	Double-pole and contact electrode
Single-pole Phase Test	
Voltage Range	100 to 690VAC
Frequency Range	50 / 400 Hz
Continuity Test	
Resistance Range	<450kΩ
Test Current	<2μA

4. Maintenance and Service

If required, clean with a damp cloth and mild detergent. Do not use abrasives or solvents.

There are no user-serviceable parts.

Contact Socket & See for service, calibration and technical assistance:

Socket & See
 Century Road
 High Carr Business Park
 Newcastle - Under - Lyme
 Staffordshire, UK
 ST5 7UG

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 Fax: + 44 (0) 1782 567095

Email: info@socketandsee.co.uk
 Website: www.socketandsee.co.uk

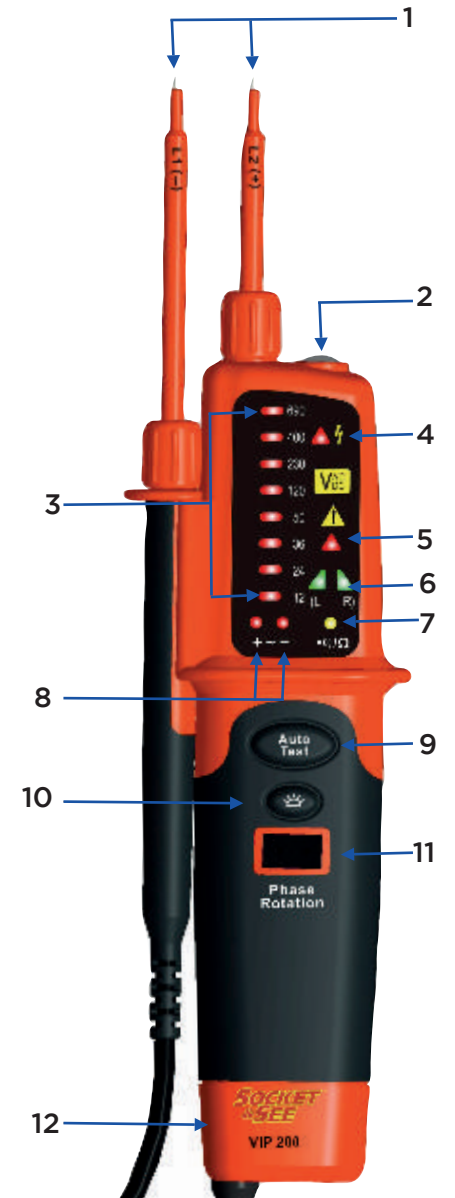
Specification	
Overvoltage Category	CAT IV 600V, CAT III 1000V
LED Indication (ACV / DCV)	12, 24, 36, 50, 120, 230, 400, 690
LED Resolution (ACV / DCV)	12, 24, 36, 50, 120, 230, 400, 690
Voltage Detection (ACV / DCV)	Auto
Polarity Detection (DCV)	Full Range
Range Detection	Automatic
Response Time	<0.1s LED
Frequency Range	0 - 400 Hz
Peak Current	1s <0.3A / 1s (5s) <3.5mA
Operation Time	ED = 30s
Recovery Time	10 mins
Auto Power On	<12V

2. Description

The VIP 200 is a 2 pole voltage Indicator with continuity, phase rotation and single pole test facility.

2.1 Indicator Parts

1. Test Probe L1 (-) / L2 (+)
2. Torch
3. LED for voltage range indicator
4. Volts present LED for single pole test
5. Volts present LED
6. Phase rotation LEDs (L) for anticlockwise phase rotation (R) for clockwise phase rotation
7. LED for continuity check
8. (+) / (-) LEDs for DC voltage polarity indication. Both will illuminate if AC voltage is present
9. Self Test button (Auto Test)
10. Torch switch. Press on / release off
11. Phase rotation electrode
12. Battery cover



3. Usage

Whenever the tester is in use, fingers should be kept behind the finger guards and the tester should be held firmly.

3.1 Auto Test

With the tester disconnected from any live source press and hold the Autotest button.

If the VIP 200 is fitted with working batteries an audible tone will be heard, the eight voltage indicating LEDs **(3)** and continuity LED **(7)** will illuminate.

NOTE:

The Auto Test is a check of the VIP 200's batteries. If checking for the presence of a voltage with the VIP 200, it should still be tested on a proving unit or known source before and after a measurement is taken.

3.2 Two Pole Voltage Indication

Two Pole voltage indication is possible with and without batteries installed.

Firmly connect the probes across the voltage you are measuring.

If a voltage of >12 V is present the VIP 200 will automatically power on.

AC / DC selection is automatic. If an AC voltage is indicated + and - LEDs **(8)** will illuminate. If a DC voltage is indicated + or - will illuminate dependant upon the polarity.

The value of the voltage will be displayed on the LED bank **(3)**

DC voltage will indicate at 12, 24, 36, 50, 120, 230, 400, 690 with polarity.

AC voltage will indicate at 12, 24, 36, 50, 120, 230, 400.

Voltages of <12 V will not be detected.

3.3 Single Pole Voltage Test

Single pole testing is only possible when batteries are installed and in good condition.

When used as a single pole tester the VIP 200 will detect AC voltages from 100 VAC. This value may be impaired under certain conditions (Eg: the operator is wearing insulated PPE).

A single pole test should not be used to prove dead. A two pole test should always be used for this operation.

Hold the tester firmly with a thumb over the phase rotation electrode **(11)**. Connect L2 to the source being measured taking care not to touch the tip of L1.

If an AC voltage of over 100 VAC is detected, the volts present LED **(4)** will illuminate and an audible tone will sound.

3.4 Continuity Testing

The continuity test is only possible when batteries are installed and in good condition.

Connect L1 and L2 across the circuit to be measured. LED **(7)** will illuminate and an audible tone will sound if continuity is present.

3.5 Phase Rotation

The phase rotation indication is always active and R / L symbols will always be displayed. However, phase rotation can only be determined within a three phase system. The tester will also indicate the voltage between the two phases.

Hold the tester firmly with a thumb over the phase rotation electrode **(11)**. Connect L2 (+) to the supposed L2 and L1 (-) to the supposed L1.

R indicates that the supposed L1 is the actual L1 Phase.

L indicates that the supposed L1 is the actual L2 Phase.

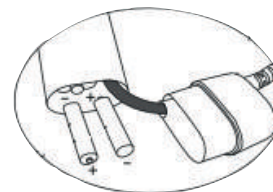
If re-testing with exchanged probes, the opposite symbol should be illuminated.

3.5 Torch

To illuminate torch **(2)** Press and hold button **(10)**. When the button is released the torch will extinguish.

3.6 Battery Installation

If no audible tone is heard when shorting the test probes or when pressing the Auto Test button **(9)**. The VIP 200 batteries should be replaced.



Disconnect the VIP 200 from any live circuits. Loosen the screw on the base of battery cover **(12)**. Pull the battery cover away from the main body of the tester and replace the batteries ensuring correct polarity.