



## 15,000 Volt Probes for connecting directly to 12,500 Vrms power

Order  
Number:  
[15KVP]

### Now you can connect directly to 12,500V service.

The model 15KVP voltage probes to allow complete analysis of 12,500V power systems. These probes plug directly into Summit Technology's PowerSight® Energy Analyzers.

### Features of the 15KVP

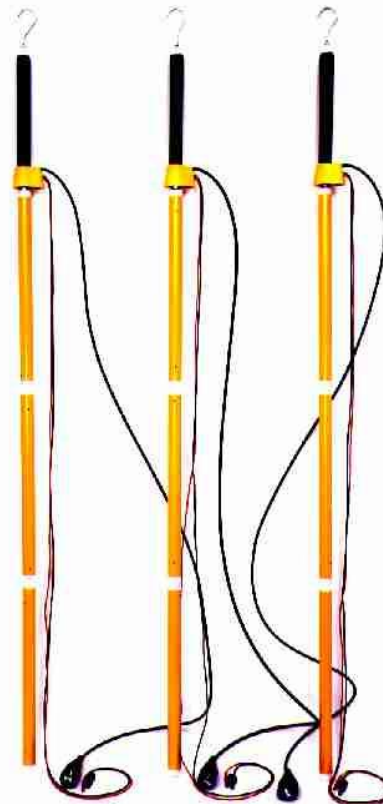
Summit Technology's model 15KVP voltage probes are capable of connecting directly to 15 kilovolts. Traditionally, professionals who wished to measure 12,500 volt lines needed to locate a PT (potential transformer) and then connect to the low voltage output secondary of the PT. The 15KVP allows direct connection to the primary voltage. Bypassing the PT avoids any phase shift and linearity problems introduced by it. It also allows direct connection at any point of interest whether PTs already exist or not. The probes are used exclusively with the PowerSight® line of Energy Analyzers, manufactured by Summit Technology Inc.



Each 15KVP is 16 inches long and 1.5 inches in diameter. They connect to high voltage lines via an open hook that is 1.3 inches in diameter. The hook is screwed into the end of the probe. It can be replaced with other custom attachments. The bottom of the 15KVP has a recessed threaded coarse 5/8" hole for mounting to a hot stick. The 15KVP is lifted into position via a hot stick. Hot sticks may be purchased from Summit Technology [order **STKS**] or may be supplied by the customer.

A typical installation includes three 15KVPs (one for each phase) and one PowerSight® energy analyzer. Each 15KVP is connected to the analyzer via safety banana jacks. Each is also always securely grounded via a hefty ground lead. Each lead is labeled to advise how to use it.

The output is linear to within  $\pm 2\%$  for voltages between 2400 and 15000 Vrms. The ability to measure harmonics declines 1 db from 50 to 900 Hz (11% attenuation





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at 15<sup>th</sup> harmonic of 60 Hz or 18<sup>th</sup> harmonic of 50 Hz).

**Using the 15KVP Probe**

Whenever possible, connect the probes to a de-energized circuit. First, connect the ground lead of each of the probes to a secure ground point. Next connect each of the V<sub>N</sub> safety banana plugs into the V<sub>N</sub> input of PowerSight. These are special stackable plugs, so all three plug into the same input. Next plug The V<sub>1</sub>, V<sub>2</sub>, and V<sub>3</sub> safety banana plugs into the V<sub>1</sub>, V<sub>2</sub>, and V<sub>3</sub> inputs of PowerSight.

At this point, press the "Input Ratios" button on PowerSight ("Calibra" button on older models) and follow the procedure to enter an input ratio of 60:1 for V<sub>1</sub>, V<sub>2</sub>, and V<sub>3</sub>. This ratio will remain until it is replaced or until PowerSight is turned off.

Lastly, connect the hooked tips of each probe to the correct phase and then re-energize the circuit.

**Availability**

The 15KVP is available for immediate purchase from Summit Technology Inc. and is priced at \$945 each. To order a set of 3 15KVP probes, specify the **15KVPSset**, priced at \$2,835. To order just one probe, specify the **15KVP**. One 15KVP, is priced at \$945.

A set of hot sticks for one 15KVP is priced at \$245. To order, specify **STKS**. **Order 3 STKS to have enough for the 15KVPSset.**

**For more information on our products contact:**

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