



## 5,000 Volt Probes for connecting directly to 4,160 Vrms power

Order Number:  
[5KVP]

### Now you can connect directly to 4,160V service.

Summit Technology provides its model 5KVP voltage probes to allow complete analysis of 4,160 V power systems. These probes plug directly into Summit Technology's PowerSight® Energy Analyzers.

### Features of the 5KVP

Summit Technology introduces its new model 5KVP voltage probes capable of connecting directly to 4160V. Traditionally, professionals who wished to measure 4160V volt lines needed to locate a PT (potential transformer) and then connect to the low voltage output secondary of the PT. The 5KVP 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 probe comes with a hook attachment to facilitate hands-free measurement and long term monitoring of 5KV lines. Each probe has a ground clamp, a neutral connector and a reduced voltage connector. The connectors are safety banana plugs. Each lead is labeled to advise how to use it.



The 5KVP comes as a set of three probes. Each probe is 14 inches long and weighs less than a pound. The fully extended length of the leads and probes is 7 feet.

The output is accurate to within  $\pm 1\%$  for voltages between 600 and 5000 Vrms at 50Hz and 60Hz. The ability to measure harmonics declines less than 1 db from 50 to 900 Hz.

### Using the 5KVP Probes

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 Vn safety banana plugs into the Vn input of PowerSight. These are special stackable plugs, so all three plug into the same input. Next plug The Va, Vb, and Vc safety banana plugs into the Va, Vb, and Vc inputs of PowerSight.

At this point, press the "Calibra" button on PowerSight and follow the procedure to enter an input ratio of 100:1 for Va, Vb, and Vc. 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 5KVP is available for immediate purchase, as a 3 probe set  
To order the set, specify **5KVP**.