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### High Voltage Divider

Model PARK Voltage Divider is constructed to a design by J.H. Park (ref: "Journal of Research" of National Bureau of Standards, Engineering and Instrumentation Vol. 66C, No. 1 Jan.-Mar. 1962.)



It is similar to the NBS standard employed in their calibration of high voltage instruments. Each 100 kv divider consists of 100 individually shielded one-megohm resistors, matched to each other to achieve an approximate temperature coefficient of less than 1 ppm/ C, and connected in series to form a vertical helix between a ground plate and a high voltage electrode. Uniquely shielded, testing indicates that corona, heating and leakage errors are less than 10 ppm at less than 10 ppm at 50 kv and 50 ppm at 100 kv.

The divider's special "hat" is designed to give uniform gradients from the high voltage electrode to ground and allows stacking of additional 100 kv units for higher voltage measurements. Each unit is only 22 1/4" high!

**DC Ratio Accuracy:** .05%, 100 kv to 1 v: .5%, 100 kv to 1 kv.

**AC Ratio Accuracy:** +/- .5%, 50 kv (max.) to 500 v. (60 cps only)

Recommended readout instrument at 1 v output tap is a precision DC potentiometer, at 1 kv tap (.5 kv on AC) recommended instrument is a .5% accurate electrostatic voltmeter.