



**The Cat Rental Store
Wirtanen Electric Division
5635 Gateway Boulevard
Edmonton, AB
T6H 2H3**

A.B. CHANCE H-1876 16 KV PHASING TOOL

GENERAL DESCRIPTION/APPLICATIONS

This tool is used to measure high voltage AC from phase to phase at 16 kV. With the use of the H-1876-4 extension resistors, voltages of up to 48 kV can be measured.

The Chance Phasing Tester is a portable device, which permits the checking of AC voltages on distribution and transmission circuits from 2.3 kV to 48 kV for the purpose of determining phase relationships and the approximate voltage line to line of line to ground of the circuits. When used above 15 kV extra caution is required to maintain working clearances for the higher voltage.

The basic instrument H1876-1 is designed for voltages up to 16 kV read directly on the black scale of the meter. This unit consists of two high impedance units of approximately 6-1/2 megohms each housed in the contact ends of the two "Epoxyglas" housings. These resistance units are encapsulated in a suitable compound epoxy to protect them from mechanical damage and to prevent moisture penetration or accumulation around the resistors. The remainder of the handle is foam filled to prevent moisture accumulation.

Between the two resistor units there is a millimeter and a connecting cable with 15 kV insulation. The resistors limit current values to less than 1-1/4 milliamperes at maximum voltage rating across the probes. Capacitance current to ground through the cable insulation depends on area of ground contact. A 4-inch contact pad provided capacitance current of less than 40 micro-amperes (0.04 milliamperes) at full voltage. This is below perception levels. Current to ground resulting from cable insulation failure or damage is limited to less than 1-1/2 milliamperes by the resistors.

For use on lines above 16 kV, two extension sticks, catalog number H-1876-4, are provided, increasing the voltage range to 48 kV. With these extensions in place, scale on the meter is multiplied by 3. These stick each house resistor units of approximately 13 megohms.

SPECIFICATIONS

Input Voltage (without extensions):	16,000 volts AC
Input Voltage (with extensions):	48,000 volts AC
Power Source:	None required. Unit is powered from the line.
Size (each stick):	35" L x 4" diameter (900 mm x 10 mm diameter)
Shipping size:	30" L x 10" H x 10" W (180 mm x 205 mm x 205 mm)
Shipping weight:	26 pounds (12 kilograms)

ACCESSORIES

Shipped with the following items: Shipping case, 2 connection hooks, 2 H-1876-4 extension sticks.

MANUFACTURER

A.B. Chance

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