

SPECIFICATION & FEATURES PHYSICAL/MECHANICAL:

Size

Each Stick - 12.5" overall length

Weight

3.0 pounds without case

Conductor Hooks

1/4-20 UNC threaded 2" diameter hook

1/4-20 UNC threaded 2 1/2" long straight probe

Hot Stick Attachment

Slotted fitting designed to mate with standard "universal" fittings.

Switch

Single three-position toggle switch
(Power - No Light - Light)

Operating Temperature

-20 to 60 C (-4 to 140 F)

Storage Temperature

-20 to +70 C (-4 to 158 F)

ELECTRICAL:

Power Source

9 volt battery

Power Drain

11 milliamperes with meter only

125 milliamperes with meter and light

Battery Life

40 hours with meter only

4 hours with meter and light

Output

3 1/2 digit .500" tall LCD with backlight

Range

0 to 20 kv

INSTRUCTIONS

for

PHASE - TELL II

Cat. No. 6706

Patent No. 5,136,234



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INSTRUCTIONS

WARNING

This unit must be used in conjunction with an insulated stick. For the purpose of determining clearances, the Phase-Tell II (including the cord) must be considered conductive. Failure to do so could result in injury or death. Do not use on system voltages above 20 kv phase to phase without extension resistors (Cat. No. 6712).

The Phase-Tell II must be mounted on universal sticks of appropriate length to allow contact to be made between the Phase-Tell II probes and the conductor. The sticks must be long enough to meet OSHA and your utility's clearance requirements. For the purpose of determining clearances, the Phase-Tell II (including the cord) must be considered conductive. Attach the appropriate style adapters prior to use.

This unit has a timer that will automatically shut the unit off after 10 minutes. The power switch has one momentary position (power) and two operating positions (no light, light). Pushing the switch to the "power" position will turn on the unit; once the unit is on pushing the switch in the opposite direction will turn on the light. The timer is reset by momentary switch activation and when a reading other than 0 is taken. For manual shutdown, hold the switch in the "power" position for more than 2 seconds and release it. Battery life is approximately 40 hours without the light and 4 hours with the light. Low battery condition is indicated by the letters "BAT" appearing in the upper left corner of the display.



When this occurs battery must be replaced. Extremely cold conditions may affect the performance of the Phase-Tell II and the battery. The Phase-Tell II should not be stored in a location where the temperature will be below -20 C (-4 F). Before using in temperatures below freezing the battery and the Phase-Tell II should be placed in a warmer location.

The Phase-Tell II has encapsulated resistors in each of the two sticks, which are connected together with a coiled cord. The meter reads the current through the sticks to determine the voltage applied. Capacitive current between the cord and other objects will cause a slight reading in the meter. This is most pronounced when both sticks are connected to the same phase and the cord allowed to hang below the tool. The reading should be zero since both ends are at the same potentials, but because of the leakage current flow from the cord, there may be a small voltage indicated. This can be minimized by controlling the amount of slack cable. While the connecting cord is insulated it should be kept clear of any other objects.

The Phase-Tell II is supplied with one 2" diameter hook, one 2" straight probe, battery and carrying case.

ACCESSORIES

The Phase-Tell II may be used on voltages higher than 20 kv phase to phase with an additional pair of extension resistors (Cat. No. 6712). The extension resistors can be attached to the Phase-Tell II by removing the supplied probes and attaching the resistors in their place. These extension resistors **MUST** be used in pairs to increase the voltage ranges. The multiplying factors and ranges are as follows:

Number of Resistor Pairs	Multiplying Factor	Range
0	1	20 kv
1	2	40 kv
2	3	60 kv
3	4	80 kv

Underground bushing adapters for 35 kv Elastimold and all 15 and 25 kv bushings (Cat. No. 6702-1) and for 35 kv RTE bushings (Cat. No. 6702-3) can be attached to the Phase-Tell II by removing the supplied hook and replacing it with the appropriate adapter.

A.D.C. Hipot Adapter (Cat. No. 6702-2) is available which allows the testing of the underground cable by rectifying the available system voltage and charging the cable to a D.C. voltage equal to the peak A.C. voltage supplied. While the D.C. voltage is high enough to test the cable, the current is limited by the Phase-Tell II. In the event the cable is defective or grounds have been left on, fault currents will not result.