WARNING:
Read before using instrument.

- **Any time you entrust your personal safety to the proper operation of an instrument, always test it on a known live circuit first.**
- **The instrument will not give voltage or current reading if the batteries are low.**
- **Remove power to circuit and discharge capacitors before taking resistance measurements.**
- **Do not exceed maximum current and voltage ratings.**
- **Do not use fuse other than specified.**
- **Keep instrument clean and dry. Replace lead if damaged.**
- **Remove batteries for long term storage.**

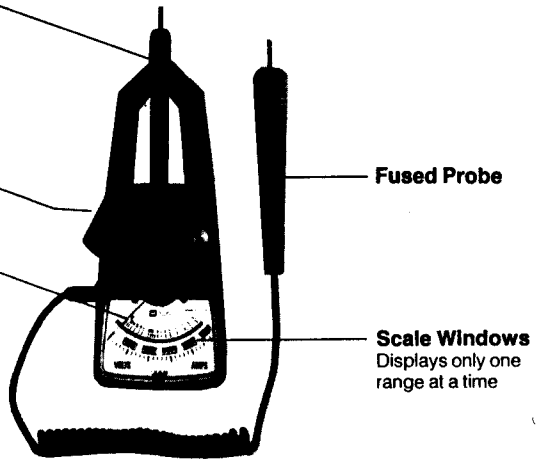
General Description

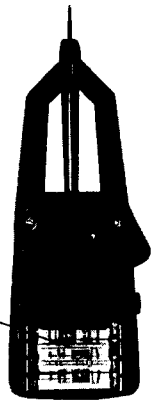
The TIF1250 is a battery-operated hand-held Analog AC Clamp-on Volt-Ohm-Ammeter. It includes a range selector for dialing up 10 useful ranges from 0 to 1250 amps and volts, full scale, plus a 5 ohm midscale range for checking motor windings.

Features of the TIF1250 AC Clamp-on Volt-Ohm-Ammeter

- 5 ohm midscale
- Reads up to 1250 volts and amps... all without connecting add-ons.
- Read both amps and volts on the same scale. Equal scale divisions give you a 100% linear scale allowing more accurate readings.
- Made in U.S.A.

The TIF1250 AC Clamp-on Volt-Ohm-Ammeter





4 AAA Batteries
Remove cover by sliding downward and install batteries as indicated in compartment.

To Check Batteries
Replace batteries if the ohm scale cannot be zeroed.

To Insert Batteries
Open the battery cover and check to see that your batteries are inserted as shown in the diagram below. Note position of the positive end of batteries.

Operating Instructions

To Measure AC Current:
Select scale and encircle a single conductor (see fig. 1). Do not continuously monitor currents over 500 amps.

To Measure AC Voltage:
The scales for volts and amps are the same. Select proper range. Note: all scale divisions are equal. Five divisions between each number (linear). This feature simplifies volts and amp measurements (see fig. 4) Attach the fixed probe to the instrument as shown (Page 2). Connect the flexible cable probe (Fused Probe) by inserting the probe plug into the volts/ohms jack (see fig. 1).

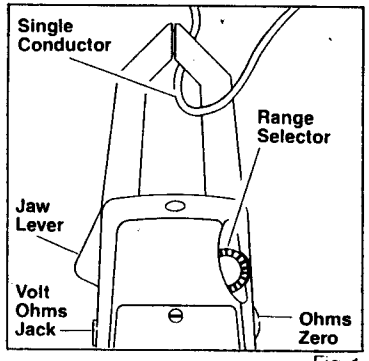


Fig. 1

CAUTION: The instrument will not give voltage or current reading if the batteries are low.

To Measure Ohms:
1. Attach probes as shown for AC voltage measurement.
2. Rotate scale selector knob until meter scale reads **Ohms.** Read only red scale (fig. 2).
3. Short probes together. Adjust Ohms zero knob to zero.
4. Using probes, measure the circuit resistance.
   Do not leave instrument in ohms mode. Batteries will run down.
   NOTE: Always disconnect power from circuit and make certain capacitors are fully discharged before attempting to measure resistance.

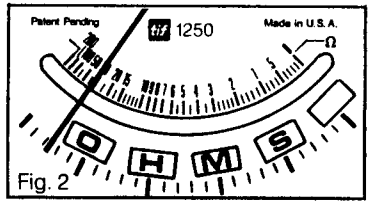


Fig. 2

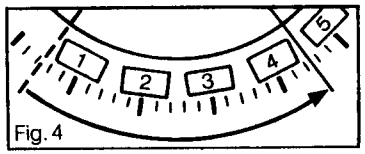
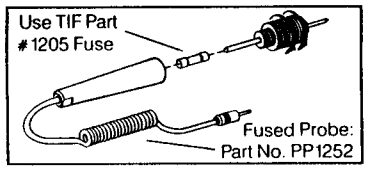


Fig. 4

Uncluttered Readout Scale:
Perhaps the most striking feature of the 1250 when compared to other meter instruments "clean" look of the **large single scale** meter face. Amps & Volts are read on the same scale (fig. 4).

Fuse Location
To replace fuse: Unscrew the two halves of the fuse probe assembly as seen below. Use only TIF part #1205.



Specifications

Power requirements: 6 volts DC (4 AAA batteries)
Circuit protection: One PP1205 fuse in 3 ft. flexible probe
Amp range: 0 to 1250 amps AC: resolution: 2/10 amp.
Volt range: 0 to 1250 volts AC: resolution: 2/10 volt
Ohm range: 1 to infinity resolution: 1/10 ohm
Accuracy: Plus or minus 3% full scale
Ambient temperature: 32° to 105°F (0° to 40°C)
Maximum diameter of cable: 1.25 inches (32 mm)
Battery life: Approx. 1 year

Ranges		
Volts AC	Amp AC	Ohms
0-5/25/125/500/1250	0-5/25/125/500/1250	5 Ohms midscale

Replacement Parts

Price Includes	Part No.
Fixed Probe	TIF1251
Fused Probe	TIF1252
Carrying Case	TIF1254
Replacement Fuse	
Optional Accessories	
Alligator Clip Probe	TIF1204
TIF Fuse (PK. of 6)	TIF1205
Fixed Flexible Probe	TIF1256