B-.35, B-.45
HI-MEG DC Dielectric Testers and Insulation Hi-Pots

The VON B-.35 and B-.45 are designed to be the most reliable 35 and 45kV testers available. They can be used for most Industrial and Substation testing including insulation resistance, dielectric absorption, DC hipot and polarization index tests. Units can be operated off of 120V AC or 12V DC with the optional inverter and a light, easily portable design makes no job site too remote.
WEIGHT - 80 pounds (36.4 kg)
WIDTH - 15.125" (38.5 cm)
HEIGHT - 18" (45.7 cm)
LENGTH - 23" (58.4 cm) over handles
INPUT - 110-125 volts 50-400 hz A.C.
  or 12 volts D.C. (optional)
  or 210-280 volts 50 hertz (optional)
TESTING - 5 ma to 45kv, 1% ripple
  - 6 ma to 35kv
CASE - Aluminum with grey finish

This two man portable unit contains:
1. High reliability VON voltage doubler circuit with silicon rectifiers.
2. The fully protected output meter in the high voltage lead indicates true leakage readings. Ranges 0-10 mic, 0-30 mic, 0-100 mic, 0-300 mic, 0-1 ma, 0-3 ma, 0-10 ma.
3. Megohm scales on the output meter allow direct resistance reading from 100,000 ohms to 300,000 megohms.
4. A 0-5 amp A.C. ammeter in input of the 110 volt to 13kv air insulated epoxy impregnated high voltage transformer.
5. A rugged taut band high torque kilovoltmeter with ranges of 0-10kv, 0-35kv or 0-15kv, 0-45kv.
6. A variable autotransformer for continuous voltage adjustment.
7. An instantaneous input circuit breaker.

THE MEGOHM SCALE: Megohms are listed above both the 0-10 and 0-30 scales on the output current meter. To measure megohms resistance with minimum calculation, set the output voltage precisely on a value selected from the chart. Turn the output current range switch to the lowest range or until the output meter reads in the middle or the right third of its scale. Record the megohm reading just above the current scale used and multiply this by the multiplier found on the cart for megohms resistance. As a check, the minimum, center scale, and maximum resistance readings are listed for each range setting.

SAMPLE OF CHART:

| RANGE | MEGOHM MULTIPLIER |
| VOLTAGE | SWITCH | UPPER SCALE | LOWER SCALE | MAXIMUM | CENTER | MINIMUM |
| TEST | SETTING | OHMS | OHMS | OHMS |
| 1,000 V | 10 mA | .1 | 10 MEG | 200,000 | 100,000 |
| | 3 mA | .1 | 40 MEG | 666,000 | 333,000 |
| | 1 mA | 1 | 100 MEG | 2 MEG | 1 MEG |
| | 300 mic | 1 | 400 MEG | 6.66 MEG | 3.33 MEG |
| | 100 mic | 10 | 1,000 MEG | 20 MEG | 10 MEG |
| | 30 mic | 10 | 4,000 MEG | 66.6 MEG | 33.3 MEG |
| | 10 mic | 100 | 10,000 MEG | 200 MEG | 100 MEG |

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