



## B-.35, B-.45

HI-MEG DC Dielectric Testers  
and Insulation Hipots

PHV

### Benefits:

- **Designed for rugged operation**
- **35kV & 45kV megohmmeter**
- **DC Hipot to 45kV**
- **Most reliable 35 and 45kV testers available**
- **Contains high reliability VON voltage doubler circuit with silicon rectifiers**

### Description:

The VON B-.35 and B-.45 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.

The VON B-.35 and B-.45 contains an instantaneous input circuit breaker, a variable autotransformer for continuous voltage adjustment and much more. Megohm scales on the output meter allow direct resistance reading from 100,000 ohms to 300,000 megohms.



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

#### 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 chart for megohms resistance. As a check, the minimum, center scale, and maximum resistance readings are listed for each range setting.

#### 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 trip circuit breaker.
8. Power on and off-discharge switch discharges cable through a 2.5 megohm resistor.
9. Ground relay system requires that the case ground, the 120 volt source ground, and the test lead ground be within 100 ohms of each other in order to operate the unit.
10. Varistors are provided between the 120 volt input lines and the case to provide surge protection to the equipment.
11. Shielded test lead, 20 feet (6.1M) long. Other lengths are available.
12. Optional built-in inverter with 15 ft.(4.6m) battery leads permits operation from a 12 volt truck battery.

Voltage Test	Range	Megohm Multiplier		Maximum OHMS	Center OHMS	Minimum OHMS
	Switch Setting	Upper Scale	Lower Scale			
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

**FOR FURTHER INFORMATION  
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