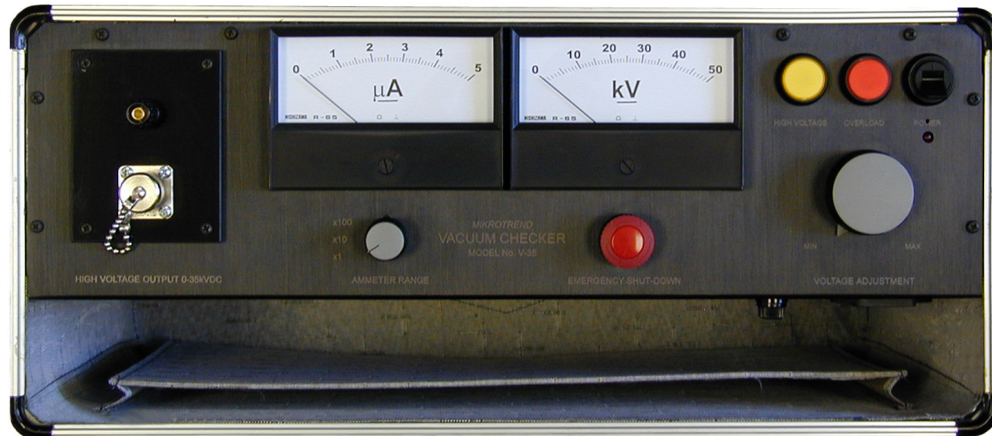


Vacuum Checker VC-35
Vacuum Interrupter Tester



- Continuous adjustable high voltage source 0...37kV DC**
- Designed to be used in Industrial and Power substations environment**
- Multi purpose testing of Vacuum Circuit Breakers, cable insulation etc...**
- True ammeter reading (guard screened test leads)**
- Single scale voltmeter**
- Overload protected**
- Line variations independent**
- Built in battery (option)**
- Detachable cable with integrated cable storage space**
- Rugged, portable and reliable, simple to use**
- Acoustic and visual signalisation when operated**

Vacuum circuit breakers do not last forever. Air is leaking inside vacuum chamber, dirt on the poles and on the exterior surface of the interrupter can make it unsafe, the mechanics of the breaker can become misaligned and the distance between the poles is no longer adequate. Any of this will change flashover point of Vacuum Circuit Breaker.

VC-35 is portable High voltage DC source for generation of negative voltages from 0...37kVDC. It is designed for shop and on-site testing of Vacuum Circuit Breakers, cable insulation etc... High Voltage is generated by high voltage transformer and a full wave capacitive voltage multiplier with silicon rectifiers.

Accurate voltage measurements are made directly at the output and current measurements are taken in the return leg. Current is measured through Vacuum chamber only, whereas test cable leakages are ignored for true ammeter reading. Safe discharging of both the test object and the high voltage transformer occur whenever the high voltage is turned off.

VC-35 can be used powered from its own battery power supply, approx. 15 minutes with full battery charge (option).

VC-35 is packaged in a handy carrying case and well suited for field applications.

Technical specification

The specifications are valid at nominal input voltage and ambient temperature between 0...+50°C, humidity less then 90%.

Personal safety:

Maximum permissible transient current through the external load is 10 mA.

Maximum discharge time for internal high-voltage circuit is 0,5 sec.

Output voltages:	0...37kVDC, load > 100 Mohm, Ripple 5% max.
Output current:	0,5 mA max, limited
Voltmeter range:	0...50kVDC
Ammeter range:	x1 0...5 uA
	x10 0...50 uA
	x100 0...500 uA

Signalisation:

RED lamp: Overload cut-off (>0,5mA)

YELLOW lamp: High Voltage "ON"

Sound signal: High Voltage "ON "

Working temperature range: 0...+50°C (32°F...+122°F)

Storage temperature range: -40...+70°C (-40°F...+158°F)

Relative humidity: less then 90%, non condensing

Mains voltage: 100...240V, 50/60Hz, 75VA max.

Built-in battery (option): Sealed Gel Lead Acid Rechargeable 12V, 2Ah.

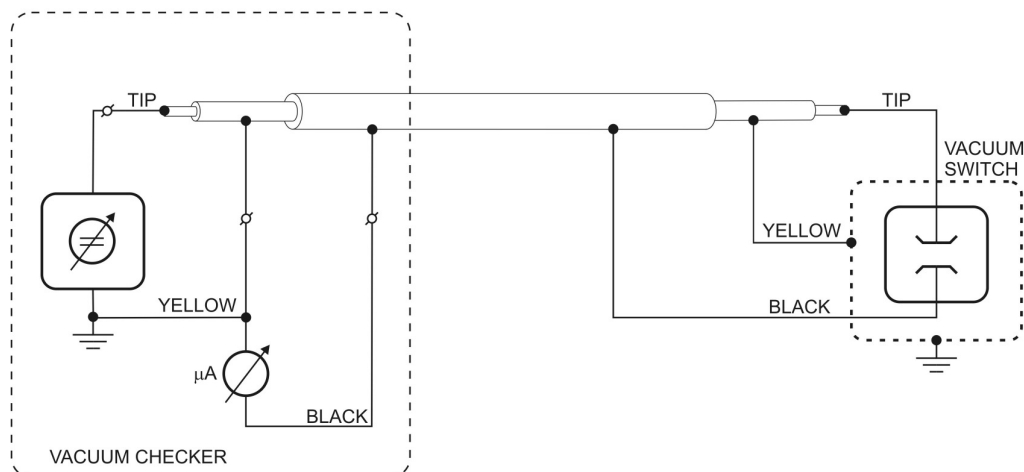
Battery charger: Constant voltage, 14 hours full charge.

Dimensions: Alu-case, 210x335x460 mm

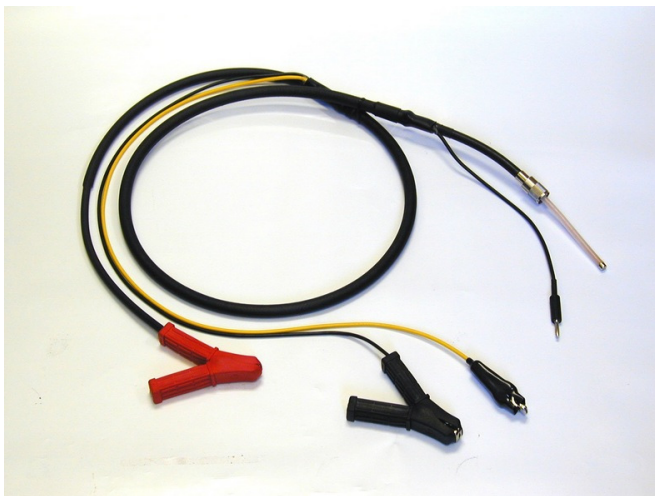
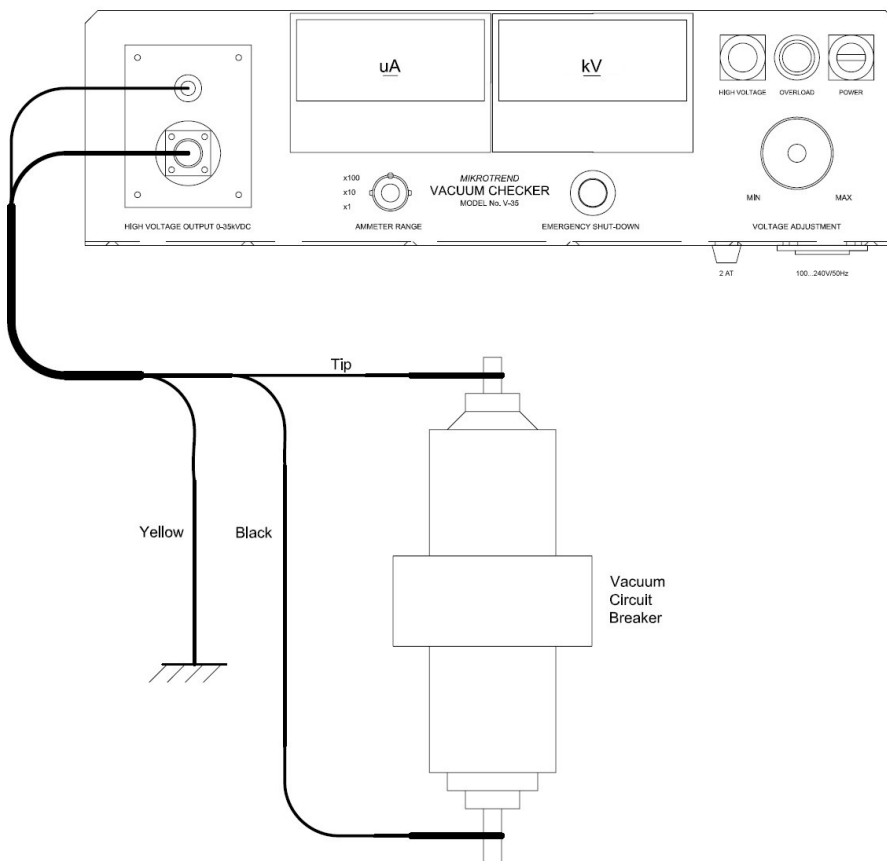
Weight: 7,5Kg Instrument alone

9Kg with battery and connection cables

High voltage cable lenght: 1,6 m



VACUUM CHECKER VC-35
Block schematic
www.mikrotrend.com



High Voltage cable



Carrying case

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