

VIPO-85

85kV Vacuum Interrupter Tester (Vacuum Checker)



- Tests the integrity of vacuum interrupters quickly, safely and easily
- User set voltage: 5kV to 85kV in 1kV steps
- Accurate, regulated, low ripple output
- User set pass/fail limit: 100/200/300 μ A
- Follows ANSI/IEEE standardized DC test methods
- Instant setup - cable storage & usage from within the integrated transport/operation case
- Battery version available (VIPO-85B)

When a vacuum circuit breaker is commissioned or undergoes maintenance, it is very important to be able to ascertain whether or not the vacuum interrupter is intact before returning to service.

The VIPO test system enables the integrity of the vacuum interrupter to be quickly, conveniently, and safely ascertained. A regulated DC test voltage up to 85kV is applied to the interrupter and the leakage current is measured and displayed.

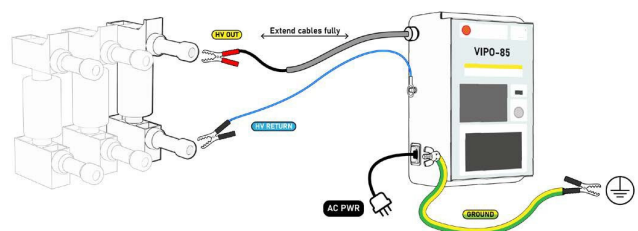
The presence of high voltage is indicated by a “HV Present” indicator and an audible tone. For additional operator safety, the test button must be held down during testing.

PASS/FAIL will be indicated depending on the user set current threshold. Any flashover, or the user releasing the test button, instantly aborts the test and quickly removes the applied test voltage.

Testing is fully automatic, with the test record being saved for later transfer, or instantly printed on-site using the built-in printer.

VIPO has been developed in close collaboration with substation maintenance engineers and technicians to be a highly practical system, and very quick to use from job to job.

The VIPO test system is operated (and all cables are housed and can remain connected) within the integrated transport and operation case. This results in significant time savings compared to traditional instruments.



Specifications (at 25°C, specifications are subject to change)

Output Voltage (user setting)	5kV to 85kV DC in 1kV steps
Output Voltage Accuracy	1.5%, <2% ripple (20-85kV)
Current Measurement	0-400uA, +/-1uA resolution, 2% accuracy at FS
Test Duration (user setting)	2s to 2min
Discharge Time	< 3 seconds
HV Present Warning	High-Brightness Visual Indicator and Audible Alert
Pass/Fail Limit (user setting)	100uA, 200uA and 300uA
Input Power	100-240Vac, 47-63 Hz, 2A
Battery Power	VIPO-85B only: 14.4V/3400mAh, Li-ion, user replaceable
Display	4.3" 480x272 IPS TFT, Ultra-bright (visible under bright sunlight)
Control	Touch control (gloved hand compatible) + Power/Home/Test button
Startup time	The instrument is ready to use within 2s of power button pressed
Test Results Storage	200 tests
Test Results Transfer	Via USB flash drive
Date/Time	Internal real-time clock, battery backup (5-year lifetime, user replaceable)
Firmware Updates	Field updatable via USB flash drive
Printer	Built-in 2.25-inch Thermal Printer
Dimensions	Test Set: 150x220x100mm - Test System (transport/operation case): 410x310x150mm
Weight	Test Set: 4kg - Test System (Test Set + transport/operation case + cables): 10kg
Operating Temperature	0°C to +50°C
Storage Temperature	-30°C to +70°C
Humidity	5% – 95% RH, non-condensing
Protection Class	IP67 (within transport/operation case, lid closed)

