VBT-75







VBT-75

vacuum bottle tester

The VBT-75 is a microprocessor-based, portable, 75kV dc vacuum bottle tester. This light-weight, portable tester is designed for testing circuit-breaker vacuum bottles in the field and at the shop.

Test voltages can be selected from 10 kV dc to 75 kV dc in 5 kV steps for the The high-voltage test time can be set from 5 seconds to 2 minutes. The test voltage is raised to the selected voltage and held for the test time duration. After the test time duration has elapsed and the leakage current did not pass the preset value of 100 μ A, 200 μ A, or 300 μ A, the test voltage is returned to zero and a "Pass" message is displayed. If a flash-over condition occurs, such as bottle failure, the test voltage is immediately turned off, a "Failure" message is displayed on the LCD screen, and the "TEST FAIL" LED light on the unit is also illuminated.

The presence of high voltage is indicated by an audible tone and an illuminated "HIGH VOLTAGE" LED light. For additional operator safety, an "ARM" switch must be held down during testing.

The VBT-75 features a back-lit LCD screen (16 characters by 2 lines) that is viewable in both bright sunlight and low-light levels. A turn-and-press knob is used to control the unit. An RS-232C interface port is provided for factory calibration and diagnostic testing.

The VBT-75 is furnished with a 10-foot test cable that is terminated with a quick-disconnect test clip. A transportation case is also included.

outstanding features

- Automatic testing
- 10 kV 75 kV DC output in 5 kV steps
- Selectable test time duration from 5 seconds to 2 minutes
- Digital voltage and current display
- Failure indicator LED
- Very lightweight

ordering information

Part No. Description

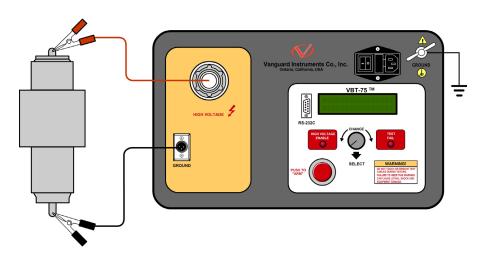
9115-UC VBT-75 and cables

9115-SC VBT-75 shipping case

High Voltage Cable



VBT-75 connections



VBT-75 Controls & Indicators



VBT-75 technical specifications					
	physical specifications	Dimensions: 17"W x 10½"H x 6½" D (42.7 cm x 26.9 cm x 16.5 cm) Weight: 10 lbs. (4.53 Kg)		input power	90 – 240 Vac, 2A, 50/60 Hz
A	output voltage	10kV – 75 kV dc in 5 kV steps; accuracy: 1.5%	A	output ripple voltage	3% max
Ġ	discharge time	maximum discharge time for internal high voltage is 3 seconds		display	back-lit LCD (16 characters x 2 lines); view- able in bright sunlight and low-light levels
X	failure indicator	failure indicator LED illuminates when test current exceeds 100 µA, 200 µA, 300 µA (programmable)	•	control	single turn-and-press knob
	temperature	Operating: -10°C to +50°C (+15°F to +122°F) Storage: -30°C to +70°C (-22°F to +158°F)	&	humidity	90% RH @ 40°C (104°F) non-condensing
5	cables	one 10-foot (3.05m) high-voltage cable, one 10-foot (3.05m) high voltage return cable, one ground cable, one power cord	*	altitude	2,000 m (6,562 ft) to full safety specifications
	furnished accessories	shipping case	*	warranty	one year on parts and labor
NOTE: the above specifications are valid at nominal voltage and ambient temperature of +25°C (+77°F). Specifications are subject to change without notice.					



Vanguard Instruments Company (VIC), was founded in 1991. Currently, our 28,000 square-foot facility houses Administration, Design & Engineering, and Manufacturing operations. From its inception, VIC's vision was, and is to develop and manufacture innovative test equipment for use in testing substation EHV circuit breakers and other electrical apparatus.

The first VIC product was a computerized circuit breaker analyzer, which was a resounding success. It became the forerunner of an entire series of circuit breaker test equipment. Since its beginning, VIC's product line has expanded to include microcomputer-based, precision micro-ohmmeters, single and three phase transformer winding turns-ratio testers, transformer winding-resistance meters, mega-ohm resistance meters, and a variety of other electrical utility maintenance support products.

VIC's performance-oriented products are well suited for the utility industry. They are rugged, reliable, accurate, user friendly, and most are computer controlled. Computer control, with innovative programming, provides many automated testing functions. VIC's instruments eliminate tedious and time-consuming operations, while providing fast, complex, test-result calculations. Errors are reduced and the need to memorize long sequences of procedural steps is eliminated. Every VIC instrument is competitively priced and is covered by a liberal warranty.



Vanguard Instruments Company, Inc.

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