

Vacuum Bottle Testers

HVBT-75

HIGHEST ACCURACY & LOWEST COST



HVBT-75

Automatic Testing.

Selectable test time duration from 5 seconds to 2 minutes.

Digital voltage and current display.

Failure indicator LED.

HVBT-75: 10 kV-75 kV DC output in 5 kV steps.

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The HVBT-75 is microprocessor-based, portable, dc 75 kV, vacuum bottle testers. These lightweight, portable testers are designed for testing circuit-breaker vacuum bottles in the field and at the shop.

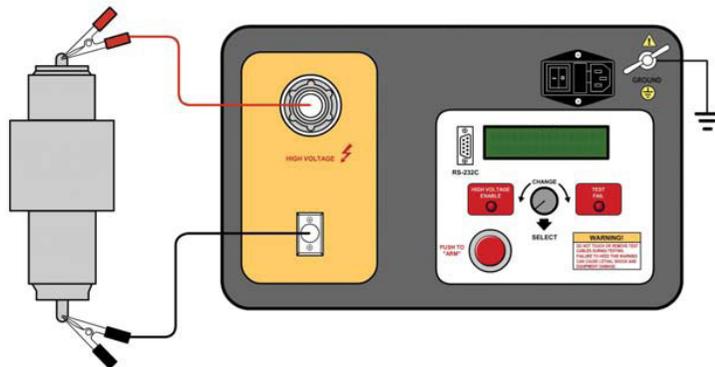
Test voltages can be selected from 10 kV dc to 75 kV dc in 5 kV steps for the HVBT-75. The high-voltage test time can be set from 5 seconds to 2 minutes. The test voltage is raised to the selected voltage and held for the test time duration. After the test time duration has elapsed and the leakage current did not pass the preset value of 100 μ A, 200 μ A, or 300 μ A, the test voltage is returned to zero. 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 HVBT-75 feature 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.

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

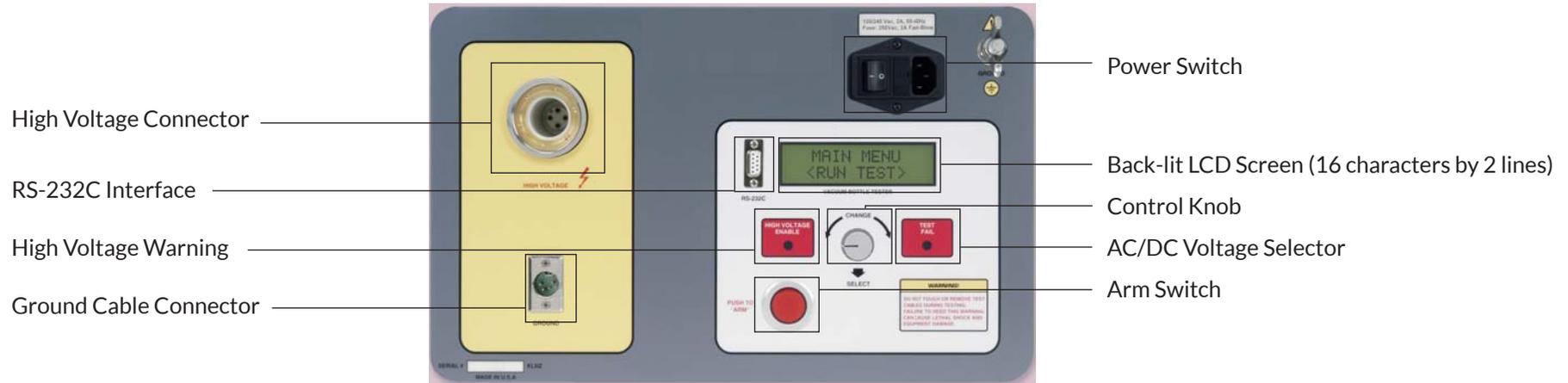
HVBT-75's Connections



High Voltage Cable



HVBT-75's Controls



HVBT-75's Specifications

Type	HVBT-75: portable, lightweight, 75 kV dc vacuum bottle tester
Physical specifications	17"W x 10K"H x 3K"D (42.7 cm x 26.9cm x 8.9 cm); Weight: 10 lbs (4.53 kg)
Input power	2 amps, 90 - 240 Vac, 50/60 Hz
Output voltage	HVBT-75: 10kV - 75 kV dc in 5 kV steps; accuracy: 1.5%
Output ripple voltage	3% max
Discharge time	Maximum discharge time for internal high voltage is 3 seconds
Display	Back-lit LCD Screen (16 characters by 2 lines); viewable in bright sunlight and low-light levels
Failure indicator	Failure indicator LED illuminates when test current exceeds 100 μ A, 200 μ A, 300 μ A (programmable)
Control	Single turn-and-press knob
Computer interface	RS-232C port for factory calibration and diagnostics
Environment	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
Altitude	2,000 m (6,562 ft) to full safety specifications
Cables	One 10-foot high-voltage cable, one 10-foot high voltage return cable, one ground cable, one power cord
Transportation case	Transportation case is included
Warranty	1 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