

VBT-80™

Vanguard Instrument's Model VBT-80™ is a microprocessor-based, portable 80 kV dc Vacuum Bottle Tester. This tester is light-weight, portable, and designed for testing circuit-breaker vacuum bottles in the field and at the shop.

The VBT-80™ permits users to select test voltages from a range from 10 kV dc to 80 kV dc in 5 kV steps. Once the test voltage reaches its preset level, a dwell timer holds this voltage at that level for the preset time duration. After the dwell time has elapsed, the test voltage returns to zero. The high-voltage test dwell time can be set from 5 seconds to 2 minutes. A flash over condition (i.e., bottle failure) is indicated by a "Failure" indicator lamp and on the LCD display.

The presence of high voltage is indicated by an audible tone and a high-voltage indicator. A press-and-hold ARM switch action during testing is required for the operators' safety.

A single, turn-then-press knob provides VBT-80™ control functions. Test voltage, current, and test results are displayed on a back-lit 2-line by 16-character LCD readout. An RS-232C serial interface port provides software-upgrade and diagnostic-testing functions.

The VBT-80™ is furnished with a 10-foot test cable that is terminated with a "quick-disconnect" test clip.

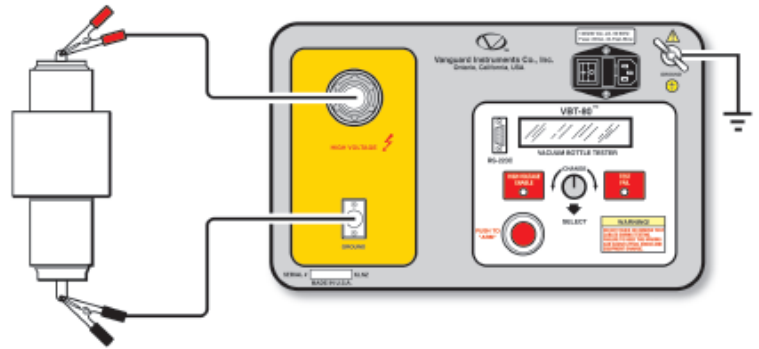
Rapidly Test

- Inexpensive
- Easy to Use
- Reliable
- Lightweight

High Voltage Connector

RS-232 Interface

Ground Cable Connector



FEATURES

- Automatic Testing
- 10 kV to 80 kV DC output in 5 kV steps
- Selectable dwell time from 5 seconds to 2 minutes
- Digital voltage and current display
- Failure indicator lamp
- Very light weight

Ordering Information

VBT-80 Circuit Breaker Vacuum Bottle Tester

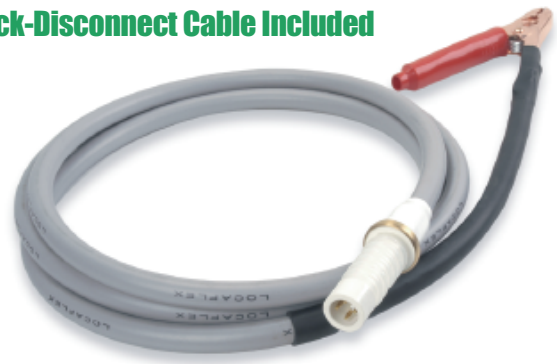
VBT-80, Cable, Case

Part No: VBT-80

VBT-80 High Voltage Cable

Part No: VBT-80 High Voltage Cable

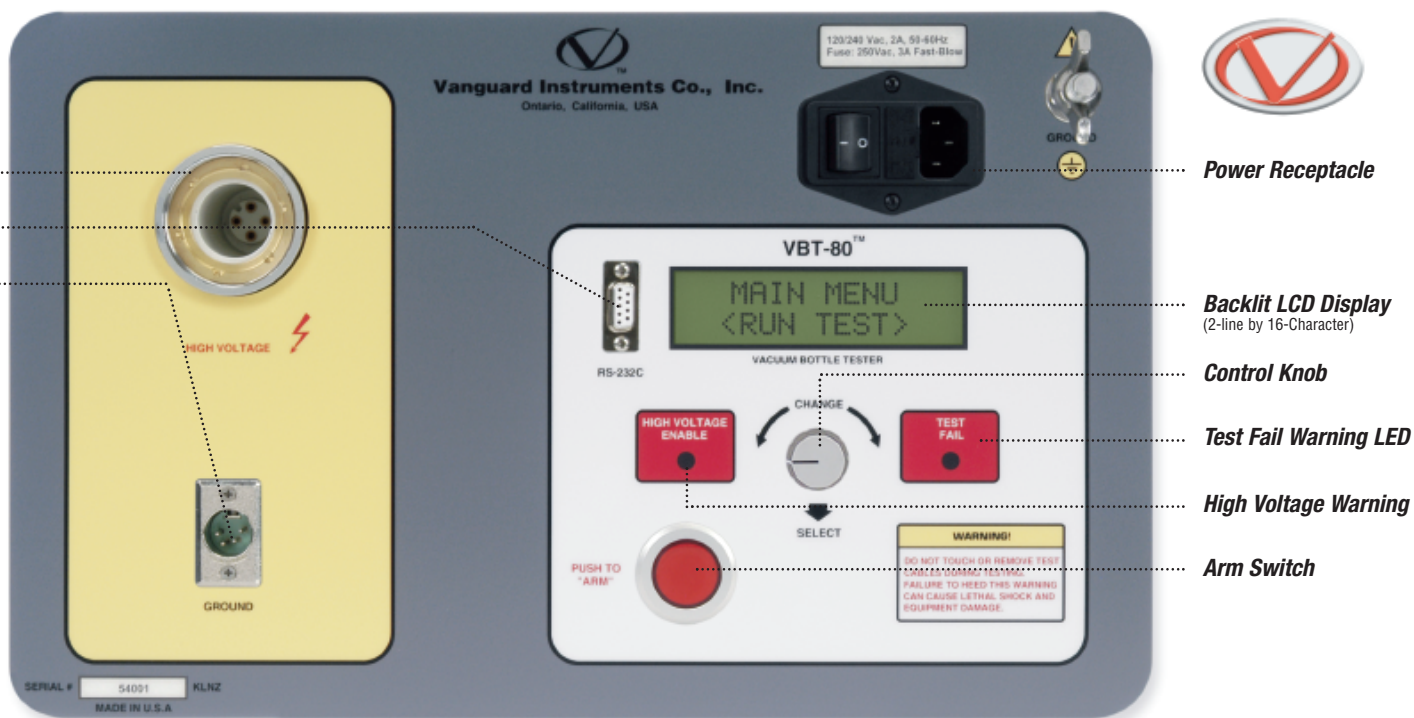
Quick-Disconnect Cable Included



A Portable 80kV Vacuum Bott

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Circuit-Breaker Vacuum Bottles in the Field and at the Shop



SPECIFICATIONS

TYPE	Portable, Light-weight, 80 kV dc vacuum bottle tester
PHYSICAL SPECIFICATIONS	16.8" W by 3.5" H by 10.6" D (42.7 cm by 8.9 cm by 26.9 cm), Weight 10 lbs (4.53 kg)
INPUT POWER	2 amps. 90-240 Vac, 50/60 Hz
OUTPUT VOLTAGE	10kV to 80 kV dc in 5,000 volt steps
OUTPUT RIPPLE VOLTAGE	3% max
DISCHARGE TIME	Maximum discharge time for internal high voltage is 0.3 seconds
DISPLAY	LCD screen, 16 characters by 2 lines
FAILURE INDICATOR	Failure indicator lights when test current exceeds 100 μ A, 200 μ A, 300 μ A (programmable)
CONTROL	Single Knob Selector (turn-and-press selection)
COMPUTER INTERFACE	RS-232C port, 19,200 Baud (Factory Calibration and Diagnostic)
ENVIRONMENT	Operating: -10°C to 50° C (15°F to +122° F); Storage: -30° C to 70° C (-22°F to +158° F)
CABLES	One 10-ft high-voltage cable, one 10-ft high voltage return cable, one ground cable, one power cord
OPTIONS	Transportation Case Included
WARRANTY	One Year Parts & Labor, Post Warranty Service Available

Note: The above specifications are valid at nominal voltage and ambient temperature of +25°C (+77°F). Specifications are subject to change without notice.

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Vanguard Instruments Company
Reliability Through Instrumentation

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