

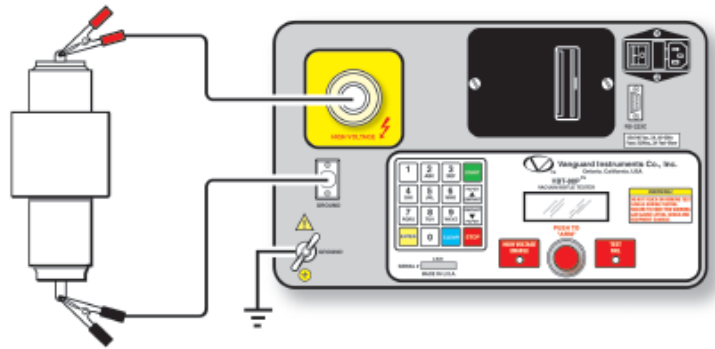
Rapidly Test

- Inexpensive
- Easy to Use
- Reliable
- Lightweight

High Voltage Connector

2.5-inch Thermal Printer

Ground Cable Connector



FEATURES

- Automatic Testing
- 10 kV to 80 kV DC output in 1 kV steps
- Selectable dwell time from 5 seconds to 2 minutes
- Built-in 2.5" Thermal Printer
- Store 84 records (of 16 readings each)
- Very light weight

Ordering Information

VBT-80P Circuit Breaker Vacuum Bottle Tester

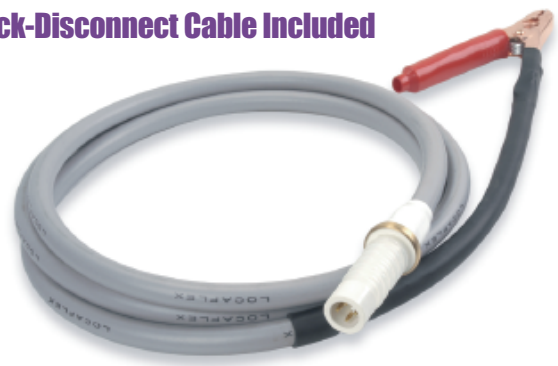
VBT-80P, Cable, Case

Part No: VBT-80P

VBT-80P High Voltage Cable

Part No: VBT-80P High Voltage Cable

Quick-Disconnect Cable Included



VBT-80P™

The VBT-80P is a microprocessor based, 80kV dc vacuum bottle tester. This light-weight, portable tester is designed to test circuit-breaker vacuum bottles in the field and in the shop.

The VBT-80P permits the user to select test voltages from 10kV to 80kV dc in 1000 V dc steps. The high voltage test dwell time is also selectable from 5 seconds to 2 minutes. The test voltage is raised to the selected voltage and held for the dwell time duration. After the dwell time has elapsed, the test voltage is returned to zero. 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 on the front panel. An ARM switch that must be pressed and held is used for the operator's safety.

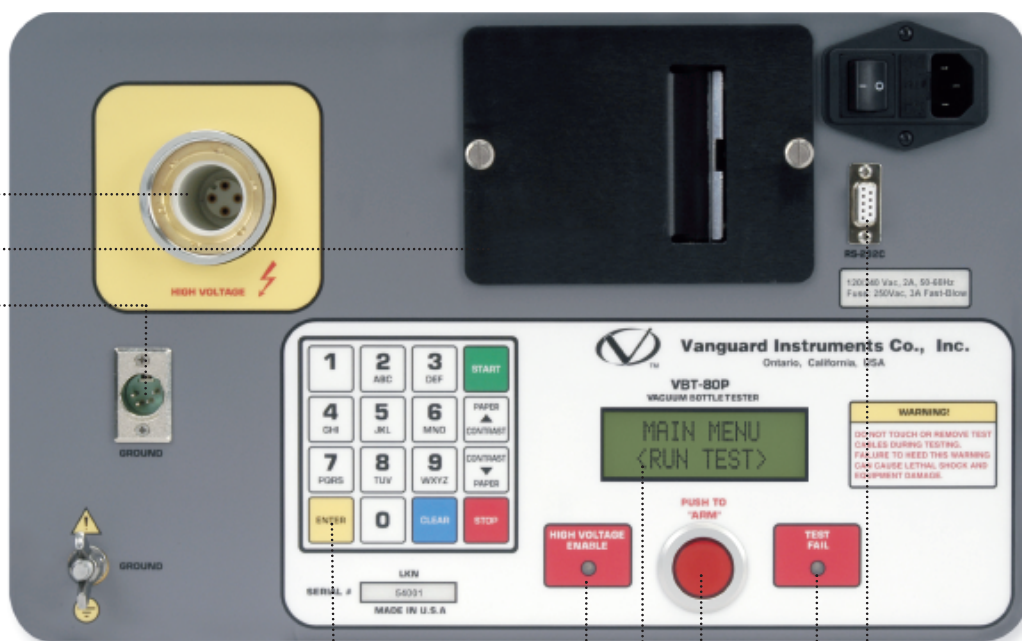
A 16-key keypad is used to enter test record information and to select the control function. Test voltage, current, and results are displayed on a back-lit 4-line by 20-character LCD readout. Test report is printed on a 2.5-inch wide thermal printer.

Up to 84 records of 16 readings can be stored in the VBT-80P's FLASH EEPROM. Stored test records can be recalled by the user to be printed on the thermal printer or transferred to an IBM-compatible PC via the RS-232C port. A Windows-based software package (provided with each unit) allows the user to download test records to a PC. The user can then review, print or export test records. The VBT-80P is furnished with a 10-foot test cable that is terminated with a "quick-disconnect" test clip.

A Portable 80kV Vacuum Bottl

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



Backlit LCD Display
(2-line by 16-Character)

High Voltage Warning

Arm Switch

RS-232 Interface

High Voltage Warning Test Fail LED

TEST RESULTS	
DATE: 12/29/04	TIME: 07:39:01
COMPANY:	VANGUARD
STATION:	SHOP
CIRCUIT:	15KV
MFR:	ABB
MODEL:	681A308H24
S/N:	98091B2201
KVA RATING:	
OPERATOR:	HAI
TEST VOLTAGE:	80 KV
TEST LIMIT:	300 μ A
TEST TIME:	0:10
LAST MEAS CUR:	98.08 μ A
LAST MEAS VTG:	80.2 KV
TEST PASSED!!	
NOTES:	
TEST VOLTAGE:	80 KV
TEST LIMIT:	300 μ A
TEST TIME:	0:10
TEST FAILED!!	
NOTES:	
DATE: 12/29/04	TIME: 07:39:43

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 1,000 volt steps
OUTPUT RIPPLE VOLTAGE	3% max
DISCHARGE TIME	Maximum discharge time for internal high voltage is 0.3 seconds
DISPLAY	LCD screen, 20 characters by 4 lines
FAILURE INDICATOR	Failure indicator lights when test current exceeds 100 μ A, 200 μ A, 300 μ A (programmable)
PRINTER	2.5-inch wide thermal printer
KEYBOARD	Heavy-duty keypad: 10 number keys, 6 function keys
TEST RECORD STORAGE	Store 84 records of up to 16 readings
COMPUTER INTERFACE	RS-232C, 19,200 Baud
PC SOFTWARE	Windows 95/98/NT/XP based, included with purchase price
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

RVJan05