VIDAR™

Vacuum Tester

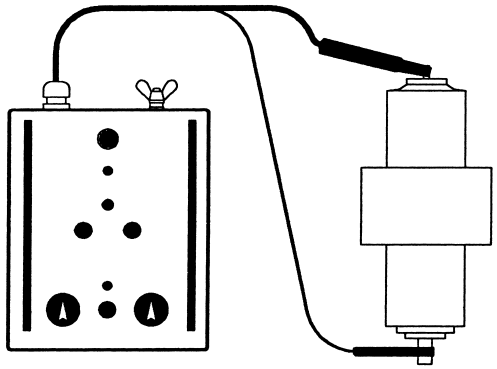
When a vacuum circuit breaker is commissioned or undergoes routine tests, it's very important to be able to ascertain whether or not the vacuum bottle is intact before putting it back into operation.

VIDAR™ enables you to check the integrity of the vacuum bottle quickly and conveniently by means of the known relationship between the flashover voltage and the underpressure in the breaking chamber. A suitable test voltage is applied to the breaker, and the result is displayed immediately.

VIDAR™ permits you to select among six test voltages from 10 to 60 kV DC. One of these voltages is customized and specified by the customer when ordering. A green lamp indicates approval of the breaking chamber. A red lamp indicates that it is defective. A two-hand control and a high-voltage warning lamp enhances safety.

VIDAR™ has been developed in close collaboration with leading manufacturers of vacuum circuit breakers. It weighs only about 6 kg (15 lbs), and it's easy to use since breaking chambers do not have to be dismounted for testing. VIDAR™ is therefore ideal for use in the field.

APPLICATION EXAMPLE



Testing a vacuum breaker's dielectric strength

1. Connect the two VIDAR alligator clamps to the two connectors on the breaking chamber.
2. Select a test voltage, depending on the type of breaking chamber being tested.
3. Power up VIDAR.
4. Turn the two rotary switches simultaneously.
5. If the green lamp lights up, the breaking chamber is approved.

SPECIFICATIONS

Output

Output voltages, standard	10, 14, 25, 40 and 60 kV DC (switchable)
Output voltage, customized	Between 10 and 60 kV DC. Determined at the factory. Default voltage is 50 kV.
Ripple	Max 3%

Measurement section

Indicators	Green lamp lights up to indicate an approved breaking chamber. Red lamp indicates a defect and lights up if the current exceeds 0.3 mA. Yellow lamp lights up to indicate the test was interrupted.

Other

Application field: The instrument is intended for use in high-voltage substations and industrial environments.
Personal safety: Maximum permissible transient current through the external load is 12 mA. Maximum discharge time for internal high-voltage circuit is 0.3 s.
Protection: Overload cut-out
Mains voltage: 115/230 V AC (switchable) ±10%, 50-60 Hz
Dimensions: 250 x 210 x 125 mm (9.8" x 8.3" x 4.9")
Dimensions transport case: 460 x 430 x 210 mm (18" x 17" x 8")
Weight: 6.9 kg (15.5 lbs). 10.7 kg (23.6 lbs) with transport case.
Warranty: 1 year
The above specifications are valid at nominal input voltage and an ambient temperature of +25°C (+77°F).
Specifications are subject to change without notice.

OPTIONAL ACCESSORIES

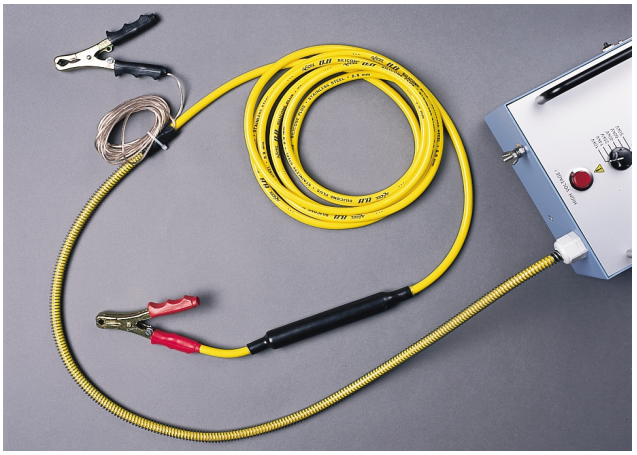
VVB100 Vidar Verification Box

For verification only. NOT for calibration.
Art.No: BR-90040

ORDERING INFORMATION

VIDAR Vacuum Tester

Complete with permanently mounted cable set 5 m (16 ft), ground cable and transport case.
Mains voltage: 115/230 V
Art.No: BR-29090



Permanently mounted cable set and ground cable.