

GE Energy



# VIDAR™

**Vacuum Tester**  
Programma® Products



imagination at work

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 dismantled for testing. VIDAR™ is therefore ideal for use in the field.

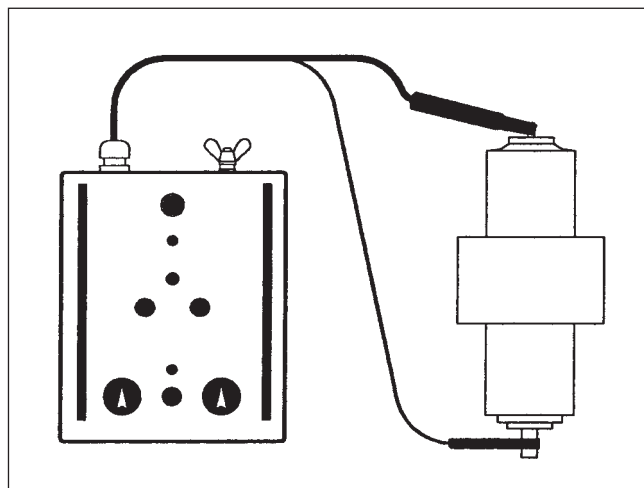
## Application example

### IMPORTANT!

Read the User's manual before using the instrument.

#### 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 VIDAR

Specifications are valid at nominal input voltage and an ambient temperature of +25°C, (77°F). Specifications are subject to change without notice.

### Environment

<i>Application field</i>	The instrument is intended for use in high-voltage substations and industrial environments.
<i>Personal safety</i>	Maximum permissible transient current through the external load is 12 mA. Maximum discharge time for internal high-voltage circuit is 0.3 s.
<i>Temperature</i>	
<i>Operating</i>	0°C to +50°C (32°F to +122°F)
<i>Storage &amp; transport</i>	-40°C to +70°C (-40°F to +158°F)
<i>Humidity</i>	5% - 95% RH, non-condensing
<b>CE-marking</b>	
<i>LVD</i>	Low Voltage Directive 73/23/ EEC am. by 93/68/EEC
<i>EMC</i>	EMC Directive 89/336/EEC am. by 91/263/EEC, 92/31/EEC and 93/68/EEC

### General

<i>Mains voltage</i>	115 / 230 V AC (switchable), 50 / 60 Hz
<i>Power consumption (max)</i>	69 VA
<i>Protection</i>	Overload cut-out
<i>Dimensions</i>	
<i>Instrument</i>	250 x 210 x 125 mm (9.8" x 8.3" x 4.9")
<i>Transport case</i>	460 x 430 x 210 mm (18.0" x 17" x 8.3")
<i>Weight</i>	6.9 kg (15.5 lbs) 10.7 kg (23.6 lbs) with accessories and transport case

### Measurement section

#### Indicators

<i>Green lamp</i>	Indicates an approved breaking chamber
<i>Red lamp</i>	Indicates a defect breaking chamber, lights up if the current exceeds 0.3 mA
<i>Yellow lamp</i>	Indicate that the test was interrupted

#### Output

<i>Standard voltages, switchable</i>	10, 14, 25, 40 and 60 kV DC
<i>Customized voltage</i>	Between 10 and 60 kV DC. Determined at the factory. Default voltage is 50 kV.
<i>Ripple</i>	Max 3%

## Ordering information

### VIDAR

Complete with:  
Permanently mounted cable set 5 m (16 ft), ground cable and transport case

### Art.No.

BR-29090



Permanently mounted cable set and ground cable.

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