

DIVIDERS

HIGH VOLTAGE MEASUREMENT SYSTEM



DIVIDERS

Description

Typical tests applied to electrical equipment, whether type or routine, require the use of voltage levels that are normally incompatible with the reading capacity of other elements that make up the test structure, such as acquisition hardware, oscilloscopes, protection relays, etc.

For this reason, high-voltage measurement systems are essential elements for a variety of applications, given the ability to accurately represent high voltage levels in values suitable for reading.

Benefits:

- Brazilian manufacturing;
- 2-year warranty;
- Personnel training;
- Better cost-effectiveness ratio.



Operation

HVEX measurement systems consist of non-inductive resistive, capacitive, or mixed dividers designed to accurately represent AC (alternating current), DC (direct current), or impulse (atmospheric or switching impulse) voltage measurements. **HVEX dividers** stand out for their wide operating voltage range and the ability to read across a broad frequency band, as well as the option for customized designs to meet specific application requirements.

Accessories:

- Kilovoltmeter;
- Oscilloscope;
- Computer;
- Supervisory software.

Supply:

- Voltage divider;
- Cables;
- Transducers (optional).



DIVIDERS

Benefits

HVEX Acquisition:

HVEX Acquisition is the software that integrates measurement systems. Through it, you can record conducted tests, manage databases, control tests, plot real-time graphs, and generate automatic reports in .doc and .pdf formats. For impulse tests, LIAS software is used. Both are equipped with a user-friendly interface and are compatible with Windows.

Customization of Project:

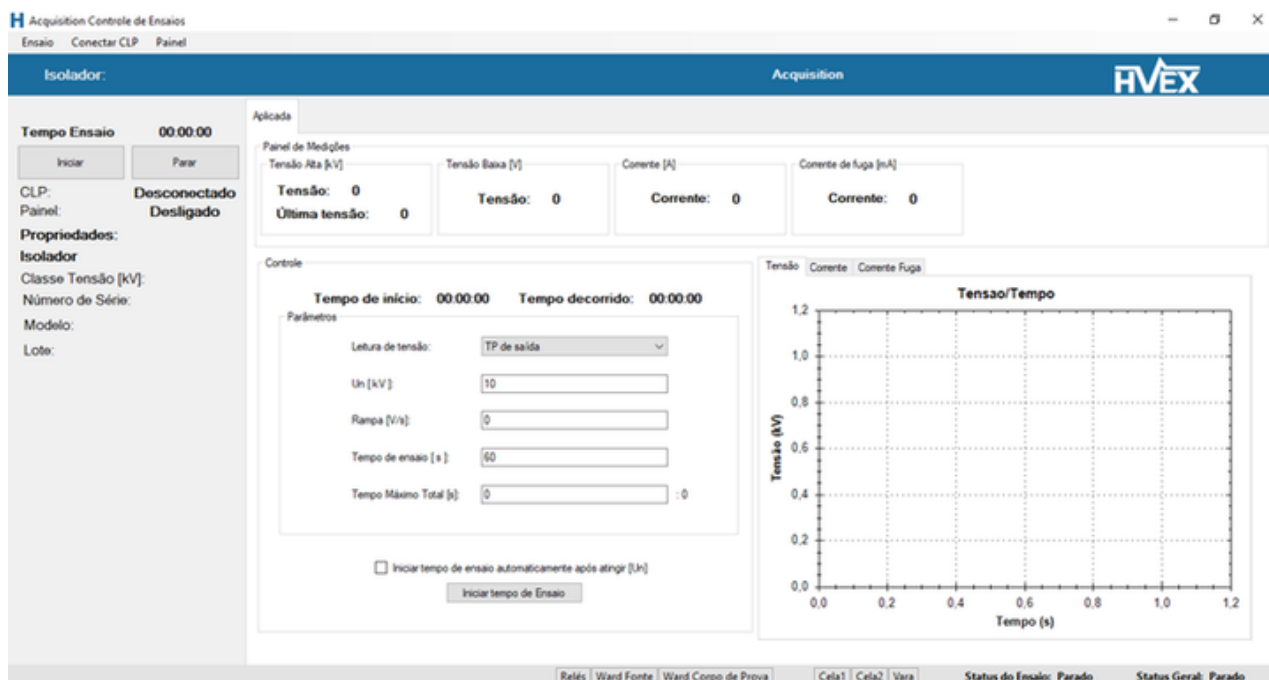
HVEX always works with the possibility of customizing the equipment to meet specific application requests and demands. This way, adaptations can be made according to the customer's needs.

Application Variability:

Given that HVEX dividers operate over a wide voltage range (5 to 2,400 kV), allow for broadband reading (up to 100 MHz for mixed dividers), have low response time (less than 200 ns), and low uncertainty level (less than 0.1%), they can be used in most applications involving AC, DC, and/or impulse voltage measurement.

Quality:

All HVEX dividers are calibrated and subjected to applied voltage tests with 10 spaced values up to the nominal class for linear regression. Additionally, HVEX dividers operate free of partial discharges up to the rated operating voltage.



Technical Specifications

Operating voltage	AC: 5 to 1200 kV
	DC: -5 to 1200 kV
	Impulsive: 2,400 kV peak for atmospheric impulse ($1.2 \times 50 \mu\text{s}$) or switching ($250 \times 2500 \mu\text{s}$)
Transformation ratio	10:1 to 100.000:1
Operating frequency range	Up to 100 MHz
Constructive types	Resistive, with resistance from 250 k Ω to 1 G Ω
	Capacitive, with capacitance from 10 pF to 5 nF
	Mixed, with variable impedance
Uncertainty	< 0,1%
Response Time	< 200 ns
Outputs	AC
	DC
	Optical
	Digital
KVOLTMETER	
Acquisition rate	10 kSa/s
Resolution	24 bits

Technical Specifications

OSCILLOGRAPH — LIGHTNING AND SWITCHING IMPULSES

Sampling rate	Up to 2.5 GSa/s
Resolution	12 bits
Relative humidity	0 to 95% non-condensing
Operating temperature	0 °C to 75 °C

We provide solutions for improvement of eletrical energy generation, transmission and distribution efficiency, quality and reliability. With a highly specialized and experienced team in research, delvelopment and innovation, HVEX develops tailor-made solutions for brazilian and foreign markets. Wide range of products with solutions focused on signal transduction, measurement, monitoring and protection.



Driving Innovation



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