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# **HPA 100 AC / HPA 130 DC**

## **Powerful High-Voltage test system up to 100 kV<sub>RMS</sub> AC / 130 kV DC**



- **Continuous testing with AC voltages up to 100 kV<sub>RMS</sub> at 5 kVA**
- **Suitable for sensitive PD measurements**
- **Built-in overcurrent protection**
- **DC testing up to 130 kV with optional rectifier**

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### **DESCRIPTION**

The AC Test Set HPA 100 is a powerful test set. The unit has been designed to test low to medium types of capacitive objects such as transformers, switchgears, isolated bus-bars and bushings.

The test set can be equipped with a rectifier attachment for DC testing up to 130 kV. Since the system's own noise level is below 1pC, it is also suitable as a voltage source for PD measurements.

The two piece design allows the operator to use the unit at a safe distance. The control unit is used for controlling the high voltage transformer. The unit consists of a variac, current/voltage display instruments, a timer for the test duration and a safety circuit.

The low voltage winding can be continuously excited from zero to the maximum value so that a certain output is available for a pre-determined period. The operating duration depends on the application, ranging from a few minutes to continuous operation. The test transformer is single-pole insulated and mounted in an insulated cylinder with top and bottom flanges. The insulation material is primarily oil impregnated paper.

## TECHNICAL DATA\*

<b>Power consumption <math>P_n</math></b>	5 kVA
<b>Power consumption short-time <math>P_k</math> (1h)</b>	7.5 kVA
<b>Input voltage</b>	230 V/50 ... 60 Hz
<b>Output voltage</b>	0 ... 100 kV <sub>RMS</sub> AC 0 ... 130 kV DC
<b>Measuring range</b>	0 ... 100 kV <sub>RMS</sub> AC 0 ... 150 kV DC
<b>Precision</b>	2,5 %
<b>Output current</b>	0 ... 50 mA <sub>RMS</sub> continuous, 75 mA <sub>RMS</sub> short circuit current (1 h)
<b>Measuring range</b>	0 ... 1/0 ... 10/0 ... 100 mA <sub>RMS</sub> AC 0 ... 0.1/0 ... 1/0 ... 10/0 ... 100 mA DC
<b>Precision</b>	2,5 %
<b>PD at rated voltage</b>	< 1 pC

### Control unit HSG 10-1

<b>Weight</b>	75 kg
<b>Dimensions</b>	520 x 430 x 465 mm

### Transformer HTR 100

<b>Weight</b>	225 kg
<b>Dimensions</b>	540 x 785 x 540 mm

## FEATURES

- High power AC test set
- Ideal for testing of HV-components such as switchgear, bus-bars etc.
- Suitable for sensitive PD measurements
- Two piece design

## SCOPE OF DELIVERY

- Control unit HSG 10-1
- Transformer HTR 100
- Set of cables HPA 100, 5 m
- Earthing stick 150 kV

## ORDERING INFORMATION

Product	Order no.
HPA 100 (AC 100 kV <sub>RMS</sub> only)	820004061
HPA 130 (AC 100 kV <sub>RMS</sub> / DC 130 kV)	813208
<b>Options:</b>	
HV connection cable 3 m (unshielded)	2005029
HV connection cable 5 m (unshielded)	2004993
HV connection cable 10 m (unshielded)	2005030

\* We reserve the right to make technical changes.

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### HPA100AC-HPA130DC\_DS\_EN\_V03

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