

VLF Test System 54 kV



**VLF Test System 54 kV with 0,1 Hz
Cosine Square Wave Voltage**

sebaKMT

VLF Test System 54 kV

Description of Operation:

Using the patented 0.1 Hz Cosine Square Wave Volt-age, weak spots in PE, XLPE and also oil impregnated paper insulated cables are quickly brought to a con-trolled breakdown without causing additional damage or ageing to the remaining cable insulation.

In accordance with most regulations, cables and joints must be tested after installation or repair. For this test the breakdown threshold of the cable is tested. The Seba KMT VLF Test System 54 kV can be used to test cables with operating voltage levels up to 30 kV. The high test capacity of 5 μ F permits the simultaneous testing of all three phases. DC testing of cables and connected switchgear can be carried out by switching over to DC Mode.

Performance Characteristics:

- The 0,1 Hz cosine square wave form voltage ensures that weak spots in the cable are brought to break-down.
- The voltage polarity transition is just like that of a 50Hz sine wave. Therefore the cable is tested as if by a normal 50 Hz test.
- The advantages of the VLF method with 0.1 Hz Cosine Square Wave Voltage have been proved by extensive scientific research as well as practical field tests.
- The method is recommended in the harmonisation document HD 620 S1.
- The maximum test capacity of 5 μ F permits long three phase cable runs to be tested.
- VLF is the most economical method of testing PE and XLPE cables and, moreover, enables paper and EPR insulated cables to be tested at a considerably reduced voltage in comparison with DC testing.
- This VLF Test System 54 kV can be used both as a fully integrated part of a test vehicle rig and as a single free standing unit. Existing test vehicles can be retro-fitted.



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Technical Specification:

Technical Specification:	0 - 54 kV (RMS)
Voltage Shape	Cosine Square Wave
Voltage Transition	approx. 5ms, analogous to 50 Hz mains frequency
Frequency	0,1 Hz
Output Voltage DC	0 - 54 kV
Capacity of Cable to be Tested	max. 5 μ F at 0,1 Hz
Discharge Unit	Built in, 10 μ F in 3 s
Supply	230 V, 50 Hz, ca. 1 kVA 120 V, 60 Hz, ca. 1 kVA
Operating Temperature	-25 °C bis +55 °C
Weight	350 kg as stand alone system, 110 kg for built in set
Dimensions (B x H x D)	900 x 1000 x 1300 mm, incl. cable drums

Ordering Information:

VLF Test System 54 kV	Article-No. 301 7560
Zur Integration in die Meßwagen:	
Compact System	Article-No. 900 1068
Vario System 54 kV	Article-No. 900 2252
Regio System	Article-No. 608 7304
System R 30	Article-No. 247 3488
System Classic	
Hitec 2000	

Delivery Information:

- Main Unit (HV Section)
- Operating Unit with Control Cable
- HV and LV Cable Drums
- Connection equipment
- Operation manual

DIN ISO-9001

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dynametric**

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Product Range: Instruments and Test Vans for Fault Location in Power and Telecommunication Networks and for Leak Detection in Water and Sewage Networks • Cable and Pipe Locators • Seminars

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Technical data subject to change without notice.