

High-Voltage testers

HVTS-70/50



- Automatic testing mode
- High resistance to external environmental influences
- Mobility
- Advanced protection and safety features
- High measurements precision
- High-contrast graphical display
- Overcurrent & overvoltage protection
- Internal memory for test results storage
- Bluetooth connectivity (optional)
- Operator & auxiliary protection
- Low weight and small dimensions



HVT-70/50



- High resistance to external environmental influences
- Mobility
- Advanced protection and safety features
- Analog indicators
- Overcurrent protection
- Operator protection



> HIGH VOLTAGE CABLE TESTING > Insulation testing unit



high voltage
testing equipment





HVTS-70/50 control panel



HVT-70/50 control panel

► Application

HVT and HVTS testers perform DC high-voltage testing of power cables (IEC 60502-2), power cables accessories (IEC 61442) as well as AC high-voltage testing of switchgear, reclosers, dielectric insulators, high-voltage dischargers (arresters), busbars and other dielectric materials with relatively low electric capacitance.

Both devices consist of a Control Unit and a High-Voltage Unit. High-Voltage units of both HVT and HVTS can be supplied with either transformer oil as an insulating material (HVU-L) or with sulfur hexafluoride as an insulating material (HVU-G). Thus, there are four modifications offered: HVTS+HVU-G, HVTS+HVU-L, HVT+HVU-L and HVT+HVU-G. We recommend using either HVTS+HVU-G or HVT+HVU-L.

► Technical specifications

Parameter	Value			
	HVTS-70/50		HVT-70/50	
	DC	AC	DC	AC
Output voltage, kV, max	70	50	70	50
Output current, mA, max	25	25 (40*)	15	25 (40*)
Output voltage measuring range, kV	3 – 70	3 – 50	0 – 70	0 – 50
Output current measuring range, mA	1 – 25	1 – 40	0 – 15	0 – 40
Measurement uncertainty	3 % of reading		3 % of FS	
Voltage raising rate, kV/s	manual / 0.5 – 4		manual	
Timer value, minutes, max	60		✗	
Bluetooth connectivity for data transferring	✓ (optional)		✗	
Input voltage, V	230 ± 10 %			
Frequency, Hz	50 ± 1			
Power consumption, kVA, max	3.0			
Control unit dimensions (W × H × D), mm	349 × 256 × 240			
HVU dimensions** (W × H × D), mm	322 × 356 × 355		360 × 500 × 310	
Control unit net weight, kg	14			
HVU net weight**, kg	23		35	

* - In a short duration mode (1 minute ON, 5 minutes OFF).

** - For HVTS-70/50 given size and weight HVU-G, for HVT-70/50 given size and weight HVU-L.
Technical data is an object to change without prior notification.

Functional features ◀

Control unit features	HVTS	HVT
High resistance to external environmental influences. Casing with firmly closing cover which prevents penetration of dust and moisture during the transportation and storage	✓	✓
Mobility. Supplied with a belt for easy transportation by a single person	✓	✓
Advanced protection and safety features. Emergency Stop button and grounding terminal on a front panel. Indication of the actual voltage on the output HV terminal	✓	✓
Analog indicators. Control panel with two analog indicators for voltage and current measurement	✓*	✓
Overcurrent protection. Blocks output circuit if current exceeds the limit	✓	✓
Overvoltage protection. Blocks output circuit if voltage exceeds the limit	✓	✗
CE Compliant. Conforms to the EU Directives 2006/95/EC (LVD) and 2004/108/EC (EMC), which is proven by independent tests at TRaC laboratories, UK	✓	✗
Improved precision. Ability to measure RMS values of both AC voltage and current irrespectively to the crest-factor (True-RMS) thus greatly reducing the crest factor errors	✓	✗
High-contrast graphical display. Ability to control and adjust the unit using a context menu which an operator can navigate by pressing keys located on both sides of display and reading the results on the display. Display indicates measurement and auxiliary information during test procedure	✓	✗
Automatic testing mode. Automatic and manual testing modes. In AUTO mode the unit raises the voltage at a pre-set rate to a pre-set voltage value, keeps the voltage on an object under test (OUT) for a certain time and then drops the voltage slowly down to zero	✓	✗
Internal memory for test results storage. Ability to save up to eight presets for the most frequently used test procedures. Ability to save measurement data history	✓	✗
Auxiliary protection. Blocking HVU-G output if insulating gas pressure is low or its temperature is high	✓	✗
High-Voltage unit features	HVU-G	HVU-L
External automatic. External shorting rod with a visible shorting indication. Ability to discharge OUT after voltage has been dropped down to zero by an operator without touching the High Voltage Unit.	✓	✓
Auxiliary protection. Built-in pressure and temperature sensors	✓	✗
Reduced weight and dimensions	✓	✗

* - graphic display shows two analog bars which are an emulation of an analog indicating scales.

You can also try to [use HVTS virtually](#) from our web-site (Adobe Flash Player required)



HVTS-70/50 conveyance carriage (optional)

high voltage
testing equipment **KEP**

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UPA-20



RIF-9



OLT-80A



UPA-1



HVT-HP
(HVU)