### Insulation testers

**HVTS-70/50** 









**HVT-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
- Auxiliary protection
- Operator protection
- Low weight and small dimensions
- 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 & HVT-70/50







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 HTVS 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

	Value				
Parameter	HVTS	HVTS-70/50		HVT-70/50	
	DC	AC	DC	AC	
Max. output voltage, kV	70	50	70	50	
Max. output current, mA	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 error, %, max	± 3 (of	reading)	± 3 (of full scale)		
Voltage raising rate, % /s	manual /	auto (1 – 9)	manual		
Timer max. value, minutes	(	50	X		
Supply voltage, V		230 ± 23			
Frequency, Hz		50 ± 1			
Power consumption, kVA, max		3			
Control unit weight, kg, max		13 13		13	
HVU weight**, kg, max		22 35		35	
Control unit dimensions, mm, max		266 × 240 × 354			
HVU dimensions**, mm	355 × 3	25 × 350	360 × 310 × 500		

<sup>\* -</sup> In a short duration mode (1 minute ON, 5 minutes OFF).

<sup>\*\* -</sup> 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.

# **HVTS-70/50 & HVT-70/50**



### Functional features

Control unit features	HVTS	HVT
<b>gh resistance to external environmental influences.</b> Casing with firmly closing cover which prevents netration of dust and moisture during the transportation and storage		✓
<b>Mobility.</b> Supplied with a belt for easy transportation by a single person	✓	✓
<b>Advanced protection and safety features.</b> 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	<b>√</b> *	✓
Overcurrent protection. Blocks output circuit if current exceeds the limit		✓
Overvoltage protection. Blocks output circuit if voltage exceeds the limit	✓	X
<b>CE Compliant.</b> Conforms to the EU Directives 2006/95/EC (LVD) and 2004/108/EC (EMC), which is proven by independent tests at TRaC laboratories, UK		×
<b>Improved precision.</b> 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		×
<b>High-contrast graphical display.</b> 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		×
<b>Automatic testing mode.</b> 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	✓	×
ernal memory for test results storage. Ability to save up to eight presets for the most frequently used test cedures. Ability to save measurement data history		×
<b>Auxiliary protection.</b> Blocking HVU-G output if insulating gas pressure is low or its temperature is high	✓	X
High-Voltage unit features	HVU-G	HVU-L
<b>ternal automatic.</b> External shorting rod with a visible shorting indication. Ability to discharge OUT after voltage s been dropped down to zero by an operator without touching the High Voltage Unit.		✓
Auxiliary protection. Built-in pressure and temperature sensors	✓	X
Reduced weight and dimensions	✓	X

<sup>\* -</sup> graphic display shows two analog bars which are an emulation of an analog indicating scales.

Scope <

Testing under high voltage (for breakdown/leakage current)



Power cables Insulators



Arresters (dischargers)



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