# TT-HV 200/400

#### ► TT-HV 200



#### TT-HV 400



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## **Specifications**

Model	Attn.	Bandwidth (MHz)	Rise Time (ns)		out dance C (pF)	Compensation Range (pF)	Max. Input
TT-HV 200	x100	300	1.2	100	5	10~30	2kV
TT-HV 400	x100	300	1.2	100	5	10~30	4kV

TESTEC

Cable Lenght 1.2 Meter



To reduce risk of fire or electric shock, do not exceed the voltage or category ratings of the probe. See voltage derating curve

#### TT-HV 200

No Measurement Category	. 2000Vpeak		
TT-HV 400 No Measurement Category	. 4000Vpeak		
<b>TT-HV 200/400</b> CAT II*  DC-Accuracy			
Pollution Degree	. Pollution Degree 2*		
Operating Altitude	. Up to 3000 meters		
Max. Operating Temp	. 0° C to +50° C		
Humidity	. 5% to 95% RH (10 to 30 °C)		
	. 5% to 50% RH (above 40 °C)		

<sup>\*</sup> As defined in IEC 61010-031. See definitions below.

#### **Definitions**

Measurement Category II (CAT II) refers to measurements performed on circuits directly connected to utilization points (socket outlets and similar) of the low-voltage mains installation.

......RH not controlled below 10 °C\*

Pollution Degree 2 refers to an operation environment where normally only dry non-conductive pollution occurs. Temporary conductivity caused by condensation should be expected.



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#### **General Safety Information**



Observe generally accepted safety procedures in addition to those listed here to avoid personal injury or damage to equipment.

The overall safety of any system incorporating this accessory is the responsibility of the assembler of the system.

Connect only to grounded instruments. Use only with oscilloscopes that have BNC with 1  $M\Omega$  input and connected to an earth ground. Do not connect the probe reference lead to any point which is at a potential other than earth ground.

Connect and disconnect properly. Connect probe to the oscilloscope before connecting it to the test circuit. Disconnect the probe input and reference lead from the test circuit before disconnecting from the oscilloscope. Do not connect/disconnect probes while connected to a voltage source

**Do not overload.** Do not apply any potential to the probe leads that exceeds the maximum rating of the probe. Observe all terminal ratings on the oscilloscope before connecting. Consult the oscilloscope product manual for further ratings information.

Always comply with the Voltage vs. Frequency Derating Curve.

Do not disassemble. Touching exposed connections may result in electric shock.

Use indoors only within operational environment listed. Do not use in wet or explosive atmospheres. Keep product surfaces clean and dry.

Handle with care. Probe tips are extremely sharp and may puncture skin or cause other bodily injury if not handled properly.

Keep fingers behind the finger guard of probe body and accessories.

Do not operate with suspected failures. Before each use, inspect the probe and accessories for any potential damage such as tears or other defects in the probe body, cable jacket, accessories, etc. If any part is damaged, cease operation immediately and sequester the probe from inadvertent use.

## Terms and Symbols

The following terms appear in this manual:



**CAUTION** of potential damage to equipment, or **WARNING** of potential for bodily injury. Attend to the accompanying information to protect against personal injury or damage. Do not proceed until conditions are fully understood and met. Refer to manual.



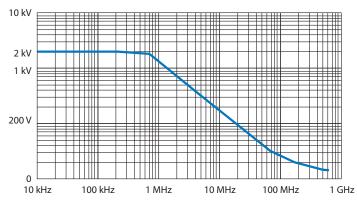
DANGER

High Voltage, risk of electric shock or burn.

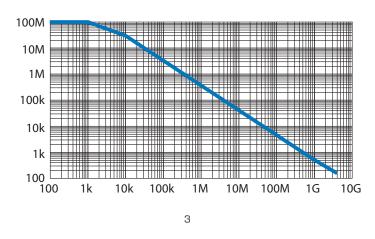


PROTECTIVE (EARTH) TERMINAL

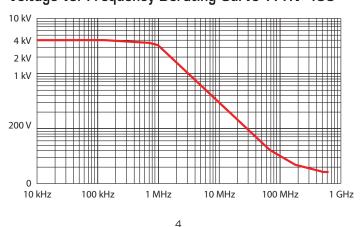
## Voltage vs. Frequency Derating Curve TT-HV 200



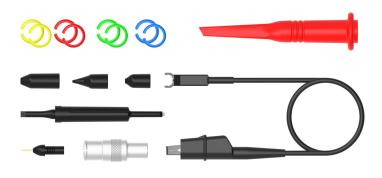
## Input Impedance Profile TT-HV 200/400



## Voltage vs. Frequency Derating Curve TT-HV 400



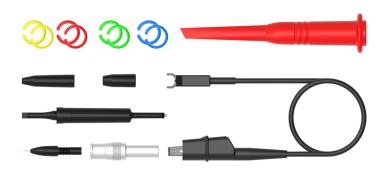
#### Accessories TT-HV 200



# Probe Compensation TT-HV 200/400

Proper compensation of the probe is required to assure amplitude accuracy of the waveform being measured by matching the probe to the oscilloscopes input capacitance. Low frequency compensation should be adjusted whenever the probe is connected to or transferred between oscilloscopes.

# Accessories TT-HV 400



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## Procedure:

- Apply a 1 kHz square wave to the probe or connect to the oscilloscope's calibrator output.
- Adjust the trimmer located in the BNC connetor-box for a flat topped square wave.



#### Waveform Compensation

Over Compensated Under Compensated Properly Compensated Incorrect Correct

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