

## TTS Thermal Stability Tester

## TTS 2/TTS 20

### Datasheet



#### In Compliance with

- > IEC 61643.1
- > GB/T 16927.1-1997
- > GB/T 18802.1
- > YD/T 1235.2

#### Introduction

After the long use of surge protection device, fire may occur due to leakage current, power consumption and temperature caused by aging of materials. Thermal stability tester is to simulate increasing leakage current of SPD to check if DUT can trip automatically during heating situation to prevent fire. It is mainly used to conduct thermal stability performance test for low voltage SPD and piezoresistor.

#### Features

- > Measurement by PC, PLC control
- > With abrupt voltage function, for test in high current condition
- > With high power resistance box
- > Internal test box
- > Friendly user interface to show operating condition
- > Voltage, current and temperature curve drew automatically
- > Multiple points temperature detection
- > Sampling and record regularly to check and compare temperature values
- > 2 times  $U_c$  leakage current test function

#### Application Areas

- > Communication
- > Telecom
- > Medical
- > Radio and TV
- > Railway
- > Information technology
- > Military
- > Aviation
- > New energy power

Technical Parameters		
Model	TTS 2	TTS 20
Max.current	1 A, 2 A	5 A, 10 A, 20 A
Min.current	1 mA	2 mA
Test grade	4-grade	4-grade
Current measurement resolution	Better than 3%	
Test voltage	0~1500 V	
Voltage measurement resolution	Better than 3%	
Temperature measurement	0~200 °C	
Temperature measurement resolution	Better than ±3 °C	
Temperature measurement path	4-path	
Temperature measurement mode	Thermoelectric couple, surface test	
Test box	Internal, with SPD installation rail	
Voltage regulating mode	Power-driven	
Continuous current	Programmable control, automatic compensation	
Measurement system	PC control, current, voltage and temperature curve drawing	

General Parameters	
Power supply	AC 220 V ± 10%, 50/60 Hz
Temperature	-10~+40 °C
Humidity	35%~85% RH (no condensation)
Ground resistance	No more than 0.5 Ω
Dimension	600×800×1720
Weight	Approx. 200 kg
No conductive dust, fire and explosion danger, no corroding metal and insulated gas. Voltage waveform is sine wave. THD is <5%.	



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