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# DATASHEET

## Surge Tester **ST 6600B**



Surge tester ST 6600B  
Desktop device

<b>Description</b>	<p>Small but extremely powerful table-top unit. Developed for quality assurance in the production of wound goods. But the ST 6600B surge tester is also suitable for use in the laboratory, development and repair. With the PC software, which is available as an accessory, all test data and test results can be conveniently stored. Surge voltage testing is the only way to detect winding shorts and insulation faults within a winding, even before the fault affects the electrical specifications of the test object. There is no other test method that can detect if the DUT has pre-damage that could lead to a failure. By quickly connecting a charged capacitor to the winding under test, the stored energy of the capacitor discharges into the inductance. This results in a sinusoidal, damped oscillation. The frequency and amplitude are typical for the test object.</p> <p>The partial discharge test enables the detection of pre-damage in the winding insulation, which can lead to premature failure of the device under test. Such damage cannot be detected with a conventional high-voltage test.</p>	
<b>Surge voltage test</b>	Voltage range	200 to 6.000 V DC
	Impact energy	max. 0,25 J
	DUT inductance	> 10 µH
<b>Evaluation procedure</b>	Area comparison	
	Error area comparison	
	Partial discharge quantity comparison	
	Partial discharge number comparison	
<b>Computer technology</b>	Sampling rate	200 MHz
	Resolution	12 Bit / 5 ns
	Sampling memory depth	600 x 12 Bit
	Master curves	20 pieces (with USB stick unlimited expandable)
<b>General data</b>	Error message	visual and audible
	PC software	DAT 3805
	Dimensions (HxWxD) and weight	167 x 340 x 328 mm / approx. 6,8 kg 6.6 x 13.4 x 12.9 in. / approx. 12.1 lbs.
	Mains supply	50 / 60 Hz
<b>Interfaces</b>	Computer interfaces	TCP-IP, USB and RS 232
<b>Operation</b>	Keyboard	7" TFT-Touchscreen