

DATA SHEET

Surge tester **ST 6600B**



Surge tester ST 6600B
Tabletop

Description	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.	
Surge voltage test	Voltage range	200 to 6.000 V DC
	Impact energy	max. 0,25 J
	DUT inductance	> 10 µH
Evaluation procedure	Area comparison	
	Error area comparison	
	Corona quantity comparison	
	Corona number comparison	
	Lenz Error LPE	
Computer technology	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)
General data	Error message	visual and audible
	PC software	DAT 3805
	Dimensions (HxWxD) and weight	340 x 328 x 167 mm / ca. 6,8 kg
	Mains supply	50 / 60 Hz
Interfaces	Computer interfaces	TCP-IP, USB and RS 232
Operation	Keyboard	7" TFT-Touchscreen