![SPS electronic logo]

Surge Tester
ST 4000B

Winding goods such as stators, coils or transformers can be tested precisely and conveniently with the ST 4000B surge tester.

Short circuits and insulation faults within a winding can be detected before the fault affects the DUT. Failures of electric motors and the associated recalls can thus be avoided. Guaranteed freedom from partial discharge of the test, switching and connection technology over the entire Voltage Range of the test device.

The test device is operated with an internal Windows PC and the easy-to-use DAT 3805 datAACquisition software. This means there are no limits to test plan creation and result storage. Network integration is not a problem, as the embedded Windows 10 IoT Enterprise 2019 LTSC used can be regularly supplied with security updates. The test sequences can be designed as required and then carried out automatically.

		ST 4000B
		Desktop device
Surge Voltage Test	Voltage Impact Capacity Evaluation Method	100 V - 6000 V 18 nF (optional: 40 nF, 100 nF (other capacities on request)) Error area, differential error area, Tolerance Band, symmetry evaluation as well as inductance measurement 100 ns typical raise time according to EN 60034 High resolution recording of the surge voltage curve for precise evaluation
Partial Discharge test	Voltage Measurement Measurement Method	100 V - 6000 V according to IEC 61934
Voltage Back Measurement (opt.)	At the DUT Connection	100 V - 6000 V Measurement of overshoot
High Voltage Test DC	Voltage Range	100 V - 6000 V / 10 mA
Insulation Measurement DC	Measuring Range	100 V - 6000 V, 10 GΩ / kV
Resistance Measurement (opt.)	Measuring Range	20 MΩ - 200 kΩ, max. 1A
Internal Matrix		3 phases + pe
General Data	Mains Supply	90 V - 250 V I 50 Hz / 60 Hz
Interfaces	Peripheral Interface Remote Interfaces	USB, HDMI Ethernet / LAN
Optional Extensions in External Housing		High Voltage Test AC, rotational direction detection, inductance measurement, capacitance measurement
Accessories		Partial discharge measuring antenna(s), environmental sensor, DUT contacting, workplace design
Operation	Touch for Input and DAT software	15.6"-Full HD color display
Dimensions and Weight (approx.)	Height Width Depth Weight	340 mm I 13.3 in 553 mm I 21.7 in 600 mm I 23.6 in 50 kg I 110 lbs

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Subject to change and error. Please note: that in Europe, we use a comma as the separator, while in the USA, a period is used.

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