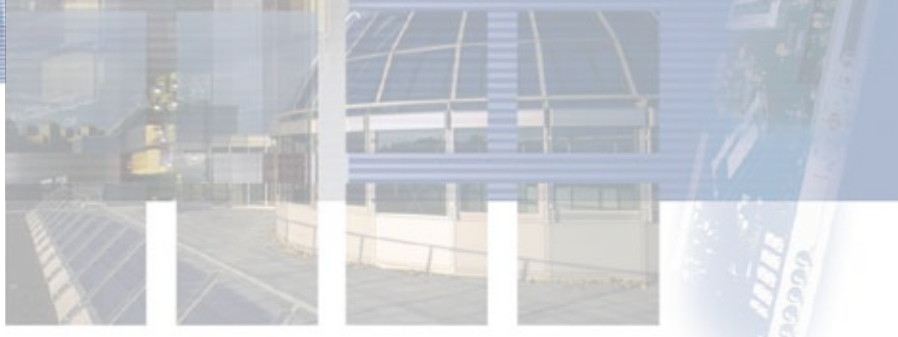




SATURN



SATURN TRANSIENT RECORDER

for LIGHTNING PULSE TESTS

Reliable Lightning Pulse Tests and Impulse Current Tests are important for the testing of High Voltage systems such as **circuit breakers, surge arrestors, isolators, cables and transformers**. They are also carried out for aircraft, automobiles, dimensioning of protective systems and many more applications.



200MS/s @ 16bit

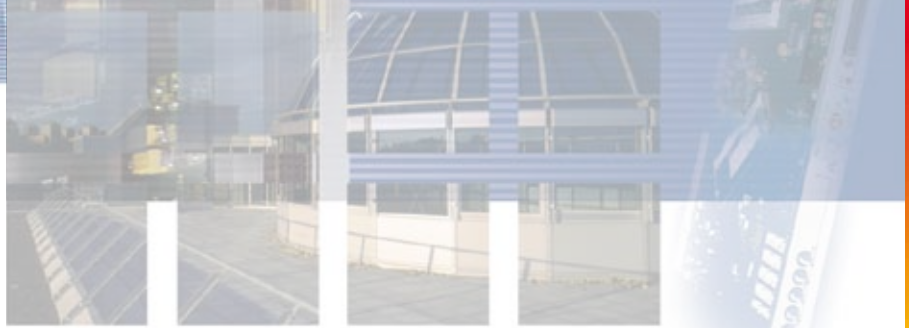
AMOTronics serves the international market in the high voltage and high power segment. Complete test solutions for precise data acquisition up to **200 MegaSample/s @ 16bit** with certified analysis and reporting capabilities are available. The Saturn data acquisition equipment optionally guarantees perfect galvanic isolation by use of fiber optic cables and supports external attenuators. Renowned customers around the world use AMOTronics systems for **R&D lab applications and automated production tests** in high voltage environments. The Lightning Pulse and Current Impulse Analysis Suite of AMOTronics enables fully automated tests according to **IEC 61083** and the latest

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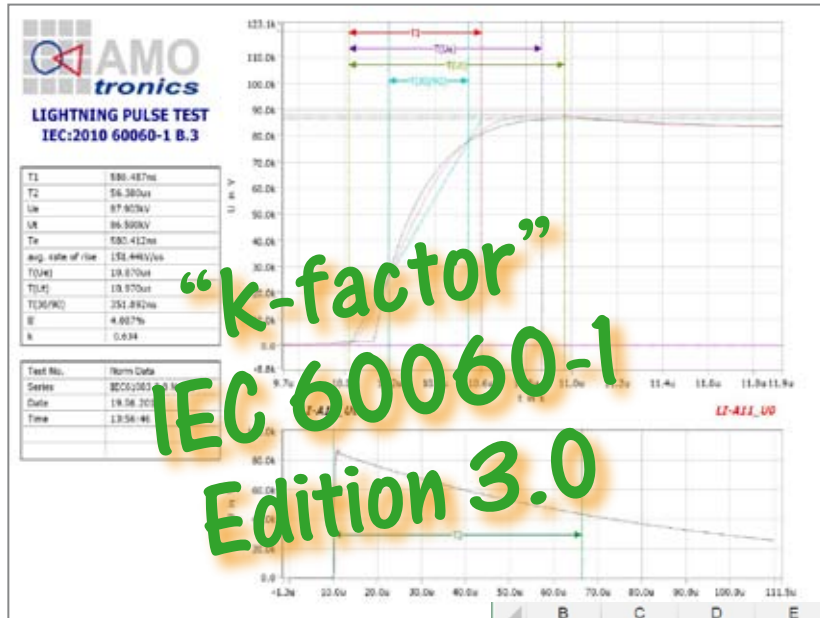
LPT / ICT - SUITE

for IMPULSE CURRENT TESTS

Analysis & Reports

IEC 60060-1 Edition 3.0 (2010). All parameters of interest are analyzed, processed and displayed in a quick and easy operation giving accurate results. Parameters measured include T1, T2, Tp, Up and k-factor etc. for full

or chopped voltage, exponential or rectangular current pulses. Meaningful professional reports are generated and archived automatically. Any valuable information, e.g. type of test, object and operator can be included.



Software validation and serial tests are supported with averaging, series reports and export to Microsoft Excel or Word documents. Report layouts can be adjusted to meet individual requirements.

The integrated universal project management stores gigabytes of data in well defined folder structures while the test personal can concentrate on the actual tests.

	B	C	D	E	F	G	H	I	J	K	L
1	Reference results IEC 61083-2 2013				Calculated results with Saturn Studio II						
2	Ut	T1	T2	B	Ut		T1		T2		B
3	kV	us	us	%	kV	deviation %	us	deviation %	us	deviation %	%
4	1000.20	1.117	48.150	4.6	1000.08	0.012	1.1212	0.378	48.1650	0.031	4.589
5	855.01	0.841	47.800	7.9	855.99	0.002	0.8486	0.902	47.8108	0.023	7.909
6	952.09	1.123	85.800	2.1	952.05	0.004	1.1226	0.040	85.8103	0.012	2.079
7	-1041.70	3.356	61.250	9.2	1041.59	0.011	3.3544	0.048	61.2500	0.000	9.189

Contact us: Roermonder
Strasse 594 52072 Aachen
Germany

Web: www.amotronics.de
E-Mail: info@amotronics.de
Phone: + 49 241 169780 28
Fax: + 49 241 169780 55
Edition 2.40e

www.axilane.com

