

INNOVATIVE SOLUTIONS
FOR ELECTRICAL
SAFETY AND
FUNCTION TESTS



SSS electronic
ADVANCED LINE

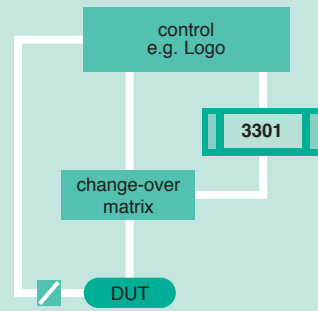


- Integrated control
- Complete control function e. g. for change-over matrices
- Evaluation of analogue signals

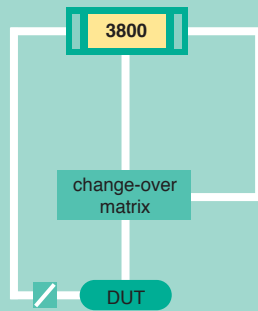
- Direct network operation via Ethernet interface
- Several devices with one server PC
- Radio network via WLAN

CONTROL FUNCTION

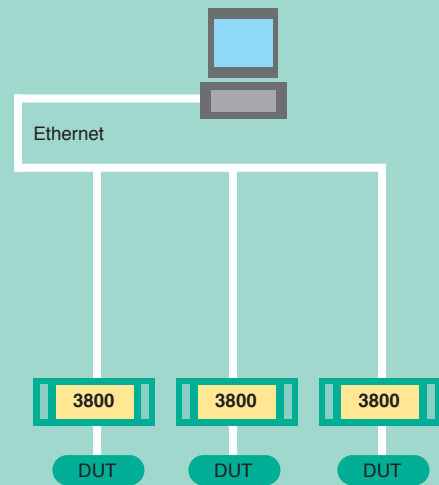
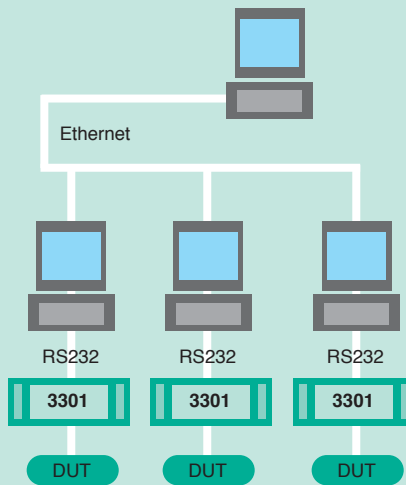
So far **SFS electronic COMMON Line**



New **SFS electronic ADVANCED Line**



PC-FUNCTION



- PC keyboard
- barcode scanner

PS / 2

- remote control operation via PC
- printer
- programming operation via PC

RS 232

- additional digital in-/outputs
- extension module

CAN BUS

- network operation LAN
- radio operation WLAN

Ethernet / RJ45

Test device series 3800

Different interfaces guarantee maximum flexibility and reliability in future for solving your test requirements.

USB	digital in-/outputs 24 DC	analogue in-/outputs 0-10 VDC	connection DUT
<ul style="list-style-type: none"> - remote control operation via PC - programming operation via PC 	<ul style="list-style-type: none"> - remote control operation via SPS (memory programmable control) - operation box - control of relay matrices, adapters, pneumatics etc.. 	<ul style="list-style-type: none"> - integration of analogue in-/outputs 	<ul style="list-style-type: none"> - connection box - test hood - test adapter

SAFETY AND FUNCTION TESTER LG 3800

Our robust multi tester LG 3800 combines safety and function tests in one device.

By combining safety and function tests with a safety current limited DC-high voltage source numerous routine test regulations according to different standard requirements are met.

The 14" / 3 HU-table housing and the colour monitor with graphic user surface make the LG 3800 into a very compact and user-friendly device. Programming and

operation are performed either via the multi function button on the device or a connectable PC keyboard.



Type as 19" / 4 HU plug-in for integration into a 19" rack or for mounting additional components.

By means of these comfortable SPS electronic compact testers you can provide your

customers with a first-rate protocol including function tests.

continuity:
24 VDC / 0.5 A

earth bond:
max. 30 AAC / 500 mOhm

insulation:
max. 4000 VDC / 1.5 GOhm

high voltage:
max. 4000 VDC / 3.9 mA

function:
max. 400 VAC / 3.6 kW

leakage current:
max. 400 VAC / 16 A

SAFETY AND FUNCTION TESTER KT 3880

The application areas of the KT 3880 are safety and function tests in combination with an AC-high voltage source.

As a low-priced and user-friendly tester the KT 3880 fulfils all of the requirements for up-to-date routine and

type testing. Different interfaces and the integration of digital and analogue signals into the test process create the basis for a test system easy to assemble and customer specific.



- continuity:
24 VDC/0.5 A
- earth bond:
max. 30 AAC/500 mOhm
- insulation:
max. 6000 VDC/1 GOhm
- high voltage:
max. 6000 VDC/100 mA
- high voltage:
max. 5000 VAC/100 mA
- function:
max. 400 VAC/3.6 kW
- leakage current:
max. 400 VAC/16 A

connection and operator console for 1- and 3-phase DUTs.



INSULATION AND HIGH VOLTAGE TESTER IL 3800/HA 3880

Our insulation tester IL 3800 allows high ohmic resistance measurements and high voltage tests with direct current voltage.

The test is performed in 4-wire measurement technique whereby the contacting of the DUT can be monitored. By applying a safety current

limited high voltage source a simple work station arrangement according to EN 50191 is possible without having to use a test cage or any additional safety protections.

4-wire measurement technique with source and sense lines.

continuity:
24 VDC/0.5 A

insulation:
max. 4000 VDC/1.5 GOhm

high voltage:
max. 4000 VDC/3.9 mA



Our testers of series HA 3880 offer high voltage test with connection and control possibilities with high operator comfort.

high voltage tester HA 3880 with test pistols.



high voltage:
max. 6000 VDC/100 mA

high voltage:
max. 5000 VAC/100 mA

insulation:
max. 6000 VDC/1 GOhm

AUTOMATION, CUSTOMER-SPECIFIC TEST SYSTEMS

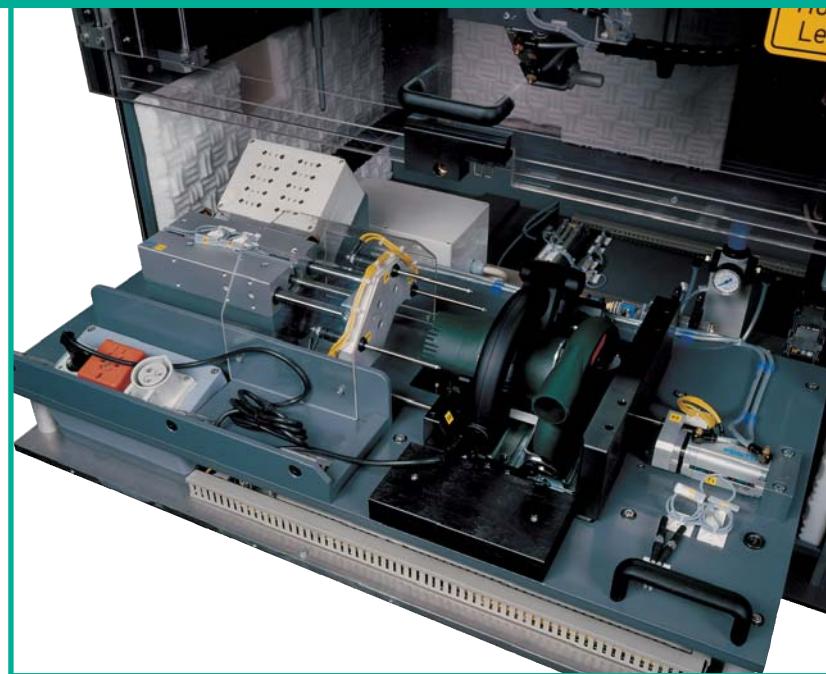
**Information, project
planning and its realisation
from a single source.**

Whether you need a fully automatic test system with software application, network connection or data bank concepts: with our software know-how we will be able to find a solution for all your requirements.

Apart from electrical safety tests we also integrate other electrical functions like voltage, current or power measurement into our test systems as well as non-electrical functions like measurement of temperature, pressure and force.



*Our mechanical construction
integrates test systems into
test lines or realises test
cages with complex DUT
holding fixtures/-adapters.*



AUTOMATIC TEST SYSTEM FOR WASHING MACHINES

Nonstop testing

With this robust, PC controlled safety and function test system very different varieties of washing machines are tested to be monitored in series. A mechanical adaptation at the production line allows a fully-automatic, rationalising test provable by archiving.



- Safety test according to IEC/EN 60335
- Safety current limited high voltage test with 1500 VDC. Therefore no special safety protections are required.
- Function test
- PC with WINDOWS
- Barcode reader
- Fully automatic test process

SURGE VOLTAGE TESTER ST 3800

The surge test in our surge tester ST 3800 is the sole possibility to test the inner insulation of a coil. Not only can already existing interturn short circuits be detected but also previous defects which have not yet led to an interturn short circuit.

Only when in operation these previous defects become interturn short circuits due to thermal and mechanical influences and automatically cause the failure of the coils of a wire.



surge voltage:
6000 VDC/3-phase

CALIBRATION AND REPAIR SERVICE – WORLDWIDE!

As a leading company in electrical safety test technique we have at our disposal not only our own calibration laboratories at numerous locations but, together with international partners, we also guarantee service for our products worldwide.

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However, we do not merely calibrate and repair our own products but we also offer our services for test devices and systems of outside manufacture.

Therefore don't hesitate to avail yourself of our prompt on-site calibration service if you are expanding abroad. And it goes without saying that SPS electronic has been certified according to ISO 9001 for many years.

We aim to solidify and expand the position we are holding today by an improved and more extensive service to our customers in order to maintain permanently the leading position we have acquired in the area of electrical safety test technique. SPS electronic signifies safety, quality and service worldwide.

