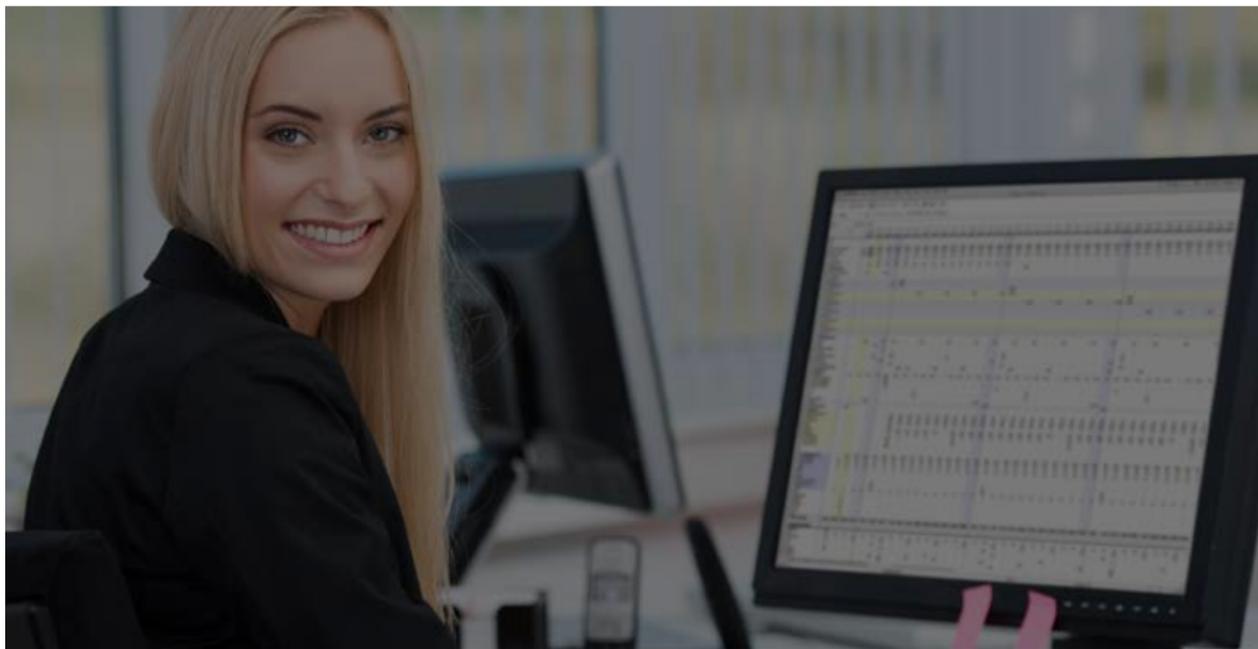


MAY WE INTRODUCE OURSELVES? WE ARE SPS ELECTRONIC



**YOUR PARTNER FOR
ELECTRICAL SAFETY TEST TECHNOLOGY**



Wolf-Henning Stoll, President



Sascha Aust, General Manager



Stefan Ruhl, Technical Manager

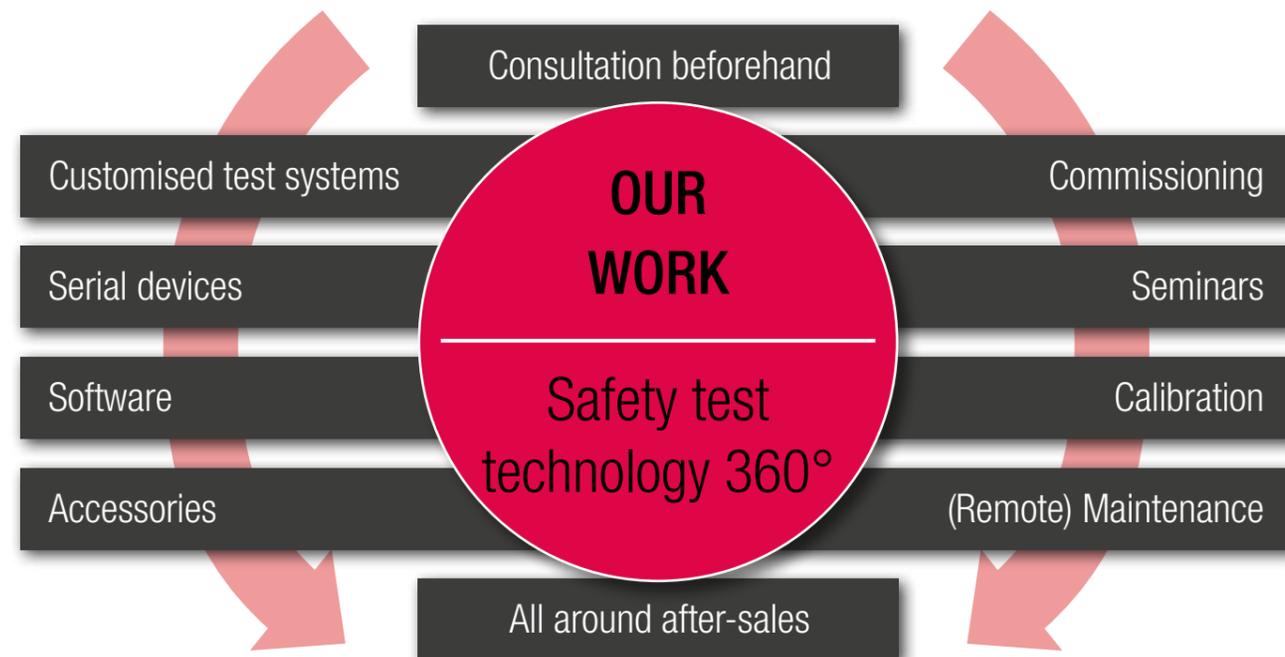
Welcome to SPS electronic

We are the technology-loving experts for electric testing equipment from the heart of Germany. We develop our products from the conviction to only offer the best quality. In doing so, we have always been oriented towards typical German values, such as reliability, accuracy and perfection – in every area. From product development via customer advice to individual support. In short, with SPS electronic you are always on the safe side.



Our work – safety testing 360°

At SPS electronic you will find an all in all offer of safety test technology and everything that goes with it.

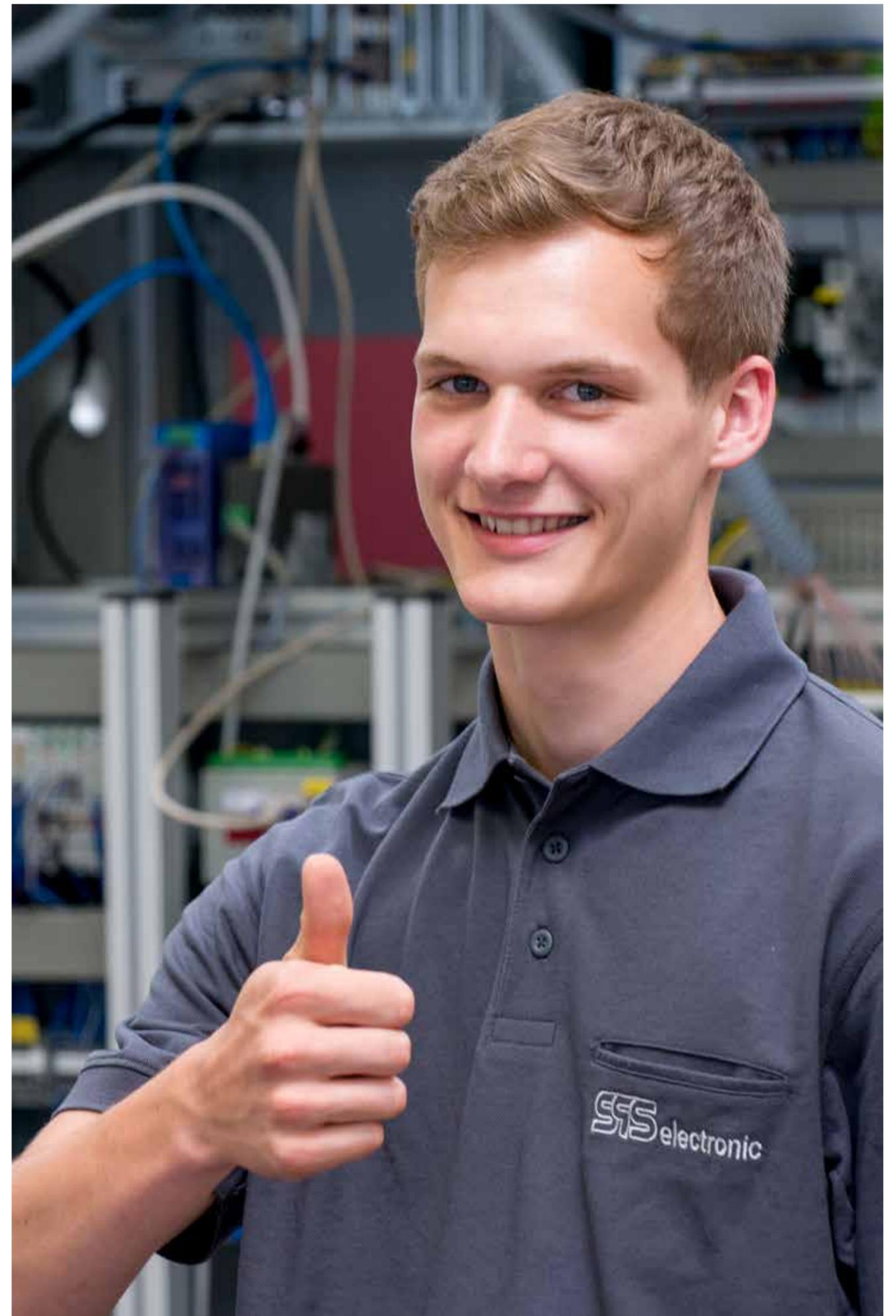


For 40 years, SPS electronic has designed and produced test technology in the field of electric safety, selling it worldwide. In doing so, our main focus is on providing **safety and function testers** as well as a wide selection of suitable **accessories**. Always at the latest state of the art and, of course, in best quality.

But apart from the continuous extension and further development of our product range, we are specialised in developing **test and checking systems** that are individually tailored to customer requirements. Thus, we also look after implementation apart from planning.

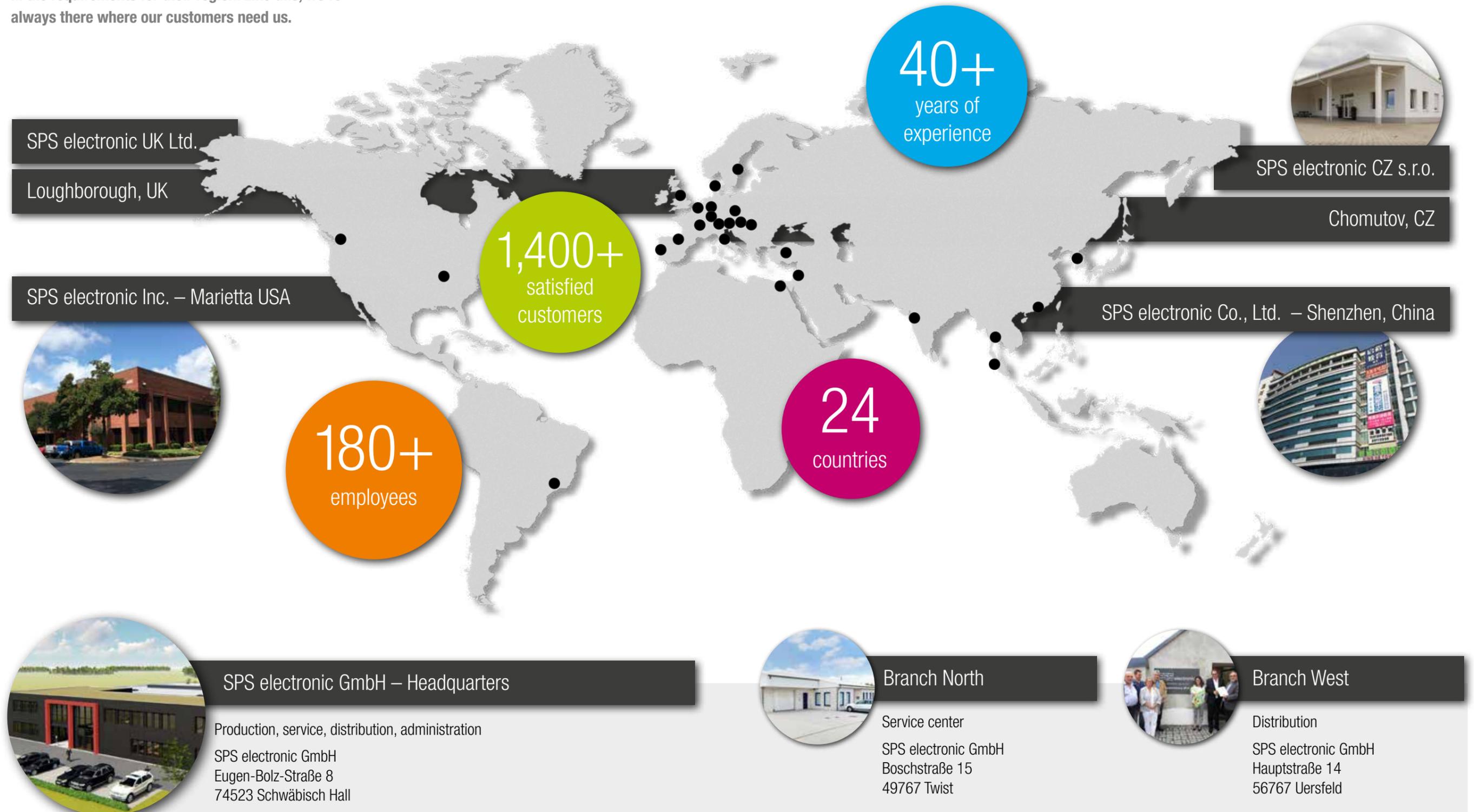
And it goes without saying that this takes place with highest claims. Because no matter what test problem you face – we will always find a solution.

We round off our product range with a reliable **full service**. This includes, for example, our comprehensive advice prior and after the purchase, the installation as well as the repair of appliances, if necessary. And this even applies when it is a third-party product. Furthermore, we offer worldwide **training courses and seminars** as well as comprehensive **online support**, covering all topics – from mere product use to safe handling of the test technology.



SPS electronic worldwide

For many years, we've been establishing worldwide subsidiaries and a broad sales and service network. All have the same quality standards and specialise in the requirements for their region. Like this, we're always there where our customers need us.



Our strengths – your advantages

Characteristics, that our customers worldwide appreciate.

We are competent...

...because we are capable of what we do! For 40 years, we have been developing and producing test technology in the area of electrical safety and have been selling them worldwide. From individual planning, development through to support – with our help, you can always be sure to have an experienced partner at your side.

We are innovative...

...because only those that improve, move forward! Our test systems as well as our serial devices and matching accessories are continuously further developed and thus, we are always one step ahead.

We are obsessed with technology...

...because only those who give their best can convince! We are specialised in creating test and inspection systems that are individually tailored to customer requirements. In doing so, we grow with each challenge and always find the perfect solution – regardless of what testing task you are faced with.

We attach great importance to SERVICE...

...because the satisfaction of our customers is what matters most to us. Our service does not come to an end with the delivery of a test system: we are also there to help you with the commissioning of the system.

Find yourself in good company



True German Quality – This is SPS electronic



Headquarters in Schwäbisch Hall

Good things can be so close at hand – Our distribution and service center:



Our field of application – cross-industry

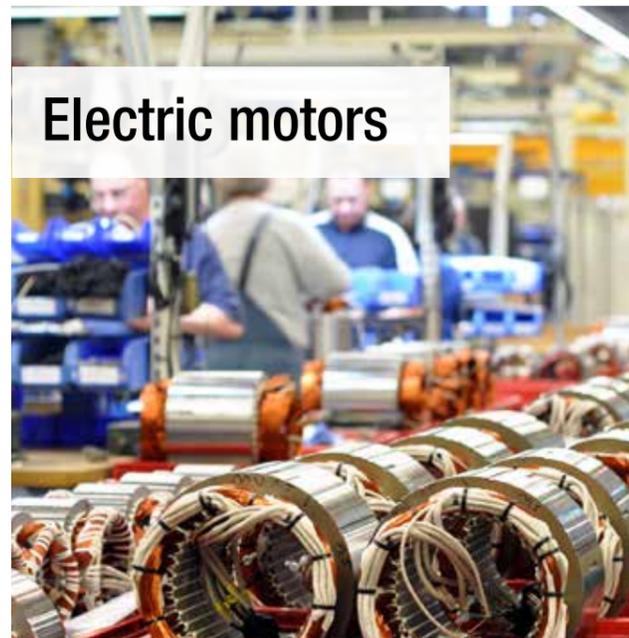
SPS electronic always offers the right test solution – no matter if it's for luminaires, motors or medical equipment.



Powertrains



Household appliances



Electric motors



Lighting industry



Automotive industry



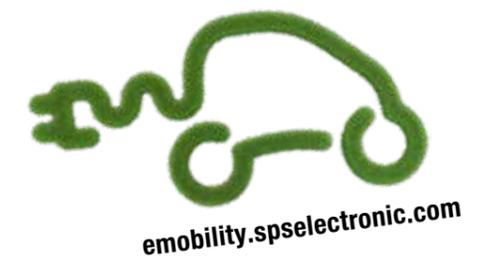
Medical technology



Power tools

You need to test – we have the right solution.

With our products, we generally offer a suitable solution for all tasks in electric safety testing. However, it can happen that very special requirements apply to a particular test task. Be it in the terms of sequence of the parameters to be tested, the conditions under which it shall be tested, or also the kind in which the approval of the test finally takes place. Here we are once again happy to assist you – with special solutions that are fully tailored to your individual needs and desired requirements. The industry is secondary in that regard – whether it involves motors, lighting fixtures, tools or even medical equipment: Decisive is always the type and procedure of the testing.



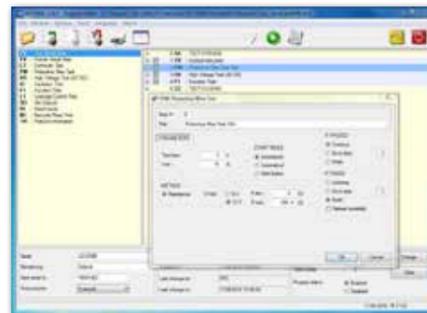
Customised test systems – and everything related

We inspire our customers with the almost unlimited combination possibilities of functions, test methods and components.

Safety and function tests

- Ground bond tests
- High voltage tests
- Insulation tests
- Leakage current tests
- Surge tests
- Partial discharge test
- Resistance measurement
- Current power measurement
- Leakage test
- ...

Software



- + Creation of test plans
- + Tests
- + Browsing of test protocols
- + Network connection
- + Data exchange with IT-systems



Interfaces / DUT connection



...and many more!

Workplace design



Our Service – Everything from a single source!

When it comes to service we do it thoroughly. The products we offer come with the appropriate advice and support – before and after purchasing. Do you have a question? Need a replacement part or support? Call one of our experienced team members: **+49 791 20 212 327**



Regular firmware updates

All testers from SPS electronic always come with up-to-date software. We provide you with regular firmware updates to stay on the cutting edge of technology also in the course of operation of the device. You can download the latest version on our website: www.spselectronic.com



Service for unit on loan

No loss of time – even if your equipment and systems are under repair or maintenance. Numerous loaners are available from the product range of SPS electronic for the duration of the repair of your equipment. Whether they are hipot testers, insulation testers, ground bond testers, leakage current testers or multifunctional units. We also provide a trial unit if you are unsure about the new unit you want to buy. Just let us know about it!



OEM spare parts service

Using our OEM spare parts ensures optimum performance and maximum service life of your equipment. We at SPS electronic supply you with the spare parts for all device types and generations worldwide. Common spare parts are immediately available from stock. Should we not have something in stock, we will produce or procure it as quickly as possible.



After-sales support

We start exactly there, where others give up! And that is why our service does not end with the purchase of one of our units. We want you to have long-term satisfaction with us and our products. Especially for this purpose, we have a large service team that is always on-hand with technical advice and support.



On-site service

We are at your service wherever you need us! The optimum support provided by our service technicians restores the operation of your devices and customised systems. Our customer-focused field service is tailored to your needs, so as to consistently meet your technical requirements. We will work out the repair and maintenance plan jointly with you, to keep the downtime of your systems and equipment at a minimum.



Seminars and training programs

Get the best from your testers! The effectiveness of your equipment and customised systems not only depends on the technology but also its proper handling. We offer training programs that focus on the issues, needs and testing tasks of our customers. We first analyse the training needs together with you and then specifically design the contents according to your requirements. Thus, you get to know your safety tester in a practical and application-oriented way.



Remote service

Our service is also remotely available as an alternative to our on-site support. This saves considerable time and significantly reduces the costs especially when it comes to sites that are far away.



Calibration and maintenance

The annual calibration of the testers is an essential prerequisite for the assured quality and is a requirement to be met by any company as part of the control of inspection, measuring and test equipment. We calibrate your safety testers – either directly at your location or in our premises. Thanks to our large service network, our numerous subsidiaries and our partners, we are represented worldwide and always close to you.

The special extra – the calibration service of SPS electronic

Because a calibration is not just a calibration,
customers worldwide rely on our expertise.

IF A „SIMPLE“ CALIBRATION IS NOT SUFFICIENT: DAKKS CALIBRATION ACCORDING TO DIN EN ISO / IEC 17025

We are very pleased to have recently received the official accreditation certificate and the certificate for our calibration laboratory in Twist from the DAkkS (Deutsche Akkreditierungsstelle / national accreditation body for the Federal Republic of Germany). This means that we are retroactively authorized to offer accredited calibrations according to DIN EN ISO / IEC 17025 since November 2019 (a competence that only very few laboratories can provide). The final accreditation was preceded by about 5 years of preparation and a lengthy accreditation process – a period of time which, last but not least, makes clear the great importance of this success.

WHAT ARE THE CHARACTERISTICS OF A DAKKS CALIBRATION?

DAkkS calibration certificates are valid at any time, internationally and without further valid proof of traceable measurement results. They are issued with standards whose traceability is guaranteed by DAkkS certificates or calibration certificates issued by PTB laboratories. DAkkS calibration certificates can only be issued by the accredited calibration laboratories within the scope of the accredited measured quantities. This ensures that high quality calibration is guaranteed by regular external assessment and re-accreditation, traceable standards, precisely defined environmental conditions and specially trained personnel.

WHAT IS THE DIFFERENCE BETWEEN A DAKKS AND A TRACEABLE FACTORY CALIBRATION?

The main difference lies in the evaluation of the measurement results: A factory calibration includes the evaluation of

the results without consideration of the measurement uncertainty on the basis of the specifications published in standards, guidelines or by the manufacturer. The DAkkS, on the other hand, provides for an evaluation of results exclusively on the basis of the actual values determined and the associated measurement uncertainties, i.e. all influencing variables occurring during calibration, such as the accuracy of measuring equipment, temperature, type of connection, device-specific parameters, resolution, tolerance limits etc., are taken into account. The results are evaluated by the customer and the usability for the required measuring process is determined.

WHICH IS THE RIGHT CALIBRATION FOR ME?

The DAkkS calibration according to DIN EN ISO / IEC 17025 becomes necessary if special requirements demand it. This procedure has no influence on the traceability of the measured variables. Both the measured variables of the factory calibration and those of the DAkkS calibration can be represented equally.

Factory calibration certificates are issued with standards that are subject to regular test equipment monitoring, the traceability of the standards used is ensured by regular test equipment monitoring.

When recalibrating test equipment, which in turn serve as standards for monitoring other measuring and test equipment, a DAkkS calibration should always be used because of the assured traceability to national standards.

You are not sure which calibration you need?

Contact us – our experts will be happy to provide you with detailed and competent advice: **+49 791 20 212 327**

The image shows a DAkkS accreditation certificate for SPS electronic GmbH. The certificate is issued by the Deutsche Akkreditierungsstelle GmbH (German Accreditation Body). It confirms that the calibration laboratory SPS electronic GmbH, located at Boschstraße 15, 49767 Twist, has the competence according to DIN EN ISO / IEC 17025:2018 to perform calibrations in the following areas: Electrical measurands, DC and low-frequency measurands, DC voltage, DC intensity, DC resistance, AC voltage, AC intensity, and High voltage measurands. The certificate is valid in connection with the notification of 21.11.2019 with the accreditation number D-K-20497-01. The registration number of the certificate is D-K-20497-01-00. The certificate is signed by Dr. Heike Manke, Abteilungsleiterin, on 21.11.2019 in Berlin.

DAkkS
Deutsche
Akkreditierungsstelle

German Accreditation Body

Deutsche Akkreditierungsstelle GmbH

Beliehene gemäß § 8 Absatz 1 AkkStelleG i.V.m. § 1 Absatz 1 AkkStelleGBV
Unterzeichnerin der Multilateralen Abkommen
von EA, ILAC und IAF zur gegenseitigen Anerkennung

Signatory of the multilateral agreements of EA, ILAC
and IAF on mutual recognition

Akkreditierung  **Accreditation**

Die Deutsche Akkreditierungsstelle GmbH bestätigt hiermit, dass das Kalibrierlaboratorium

SPS electronic GmbH
Boschstraße 15, 49767 Twist

The German Accreditation Body hereby confirms that
the calibration laboratory SPS electronic GmbH,
Boschstraße 15, 49767 Twist

die Kompetenz nach DIN EN ISO/IEC 17025:2018 besitzt, Kalibrierungen in folgenden Bereichen
durchzuführen:

has the competence according to DIN EN ISO / IEC
17025:2018 to perform calibrations in the following
areas:

Elektrische Messgrößen
Gleichstrom- und Niederfrequenzmessgrößen

- Gleichspannung
- Gleichstromstärke
- Gleichstromwiderstand
- Wechselspannung
- Wechselstromstärke
- Hochspannungsmessgrößen

Electrical measurands
DC and low-frequency measurands
DC voltage
DC intensity
DC resistance
AC voltage
AC intensity
High voltage measurands

Die Akkreditierungsurkunde gilt nur in Verbindung mit dem Bescheid vom 21.11.2019 mit der
Akkreditierungsnummer D-K-20497-01. Sie besteht aus diesem Deckblatt, der Rückseite des
Deckblatts und der folgenden Anlage mit insgesamt 9 Seiten.

The accreditation certificate is only valid in connection
with the notification of 21.11.2019 with the accredi-
tation number D-K-20497-01. It consists of this cover
sheet, the back of the cover sheet and the following
annex with 9 pages in total.

Registrierungsnummer der Urkunde: **D-K-20497-01-00**

Registration number of the certificate:
D-K-20497-01-00

Berlin, 21.11.2019

Im Auftrag Dr. Heike Manke
Abteilungsleiterin

Siehe Hinweise auf der Rückseite

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74523 Schwäbisch Hall

Germany

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