

Tested standards compliance
and safety –
from components to systems



VDE
INSTITUTE

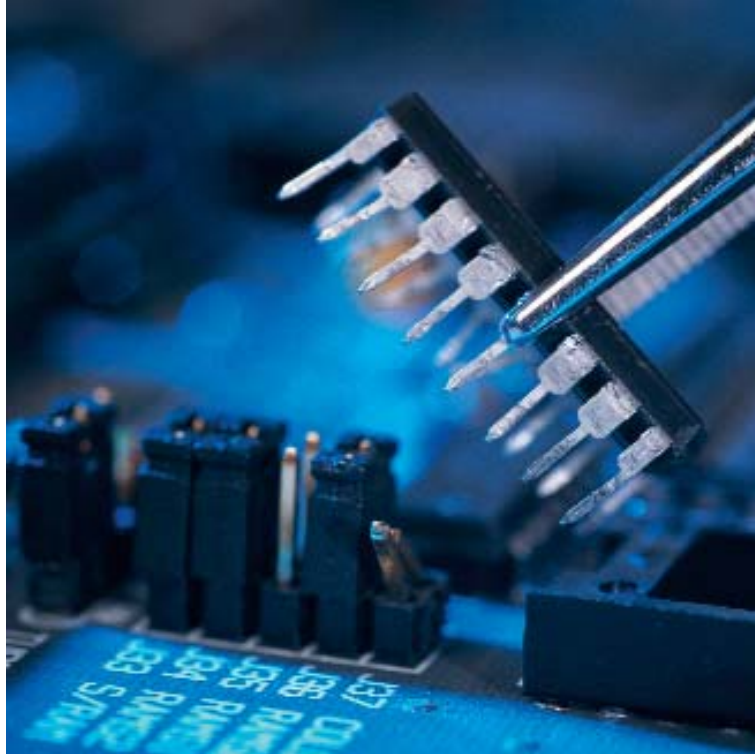
VDE for electrical and electronic components:

We focus on precision and testing quality,
because safety is a matter of detail

No matter how attractive an appliance or system may appear: insufficient quality of a switch, a relay or even just a fuse can endanger the matter dramatically. And such quality and safety problems quickly damage the reputation of a brand, and the customer is exposed to hazards.

But environmental or electromagnetic compatibility (EMC) are equally important quality characteristics.

Irrespective of whether we are talking about manufacturing electrical and electronic components, modules or systems, research and development, appliance development, processing, installation or distribution: The test marks issued by the VDE Institute certifying testing quality "Made in Germany" always provide the required safety and pave the way into all markets – in both geographical and industry-specific terms.



The services offered by the VDE Institute:

Product testing and certification of components
for the home, trade and industry

VDE is a global brand (trademark) for the safety and quality of technical products. The VDE Institute offers product testing and certification specifically for electrical and electronic components, modules and systems for

- Switches for fixed Installations
- Switches for Appliances
- Controls
- Miniature Fuses
- Opto couplers
- Varistors
- Relays
- Connecting Systems
- Low-voltage Switchgear
- Protective Devices
- Capacitors
- Electromagnetic interference suppression Components
- and many more

The marks of the VDE Institute:

Premium brands for the safety and quality of your products

VDE Marks are the best known premium brands for the tested safety of electrical and electronic components, modules and systems both within Europe and far beyond. Evidence shows that manufacturers, retailers, craftsmen and the consumer do not only understand the VDE Marks as a test seal, but also as an award. Testing and certification quality “Made in Germany” is so much more than just routine and is therefore particularly trustworthy.

Manufacturers and retailers alike can benefit significantly from VDE Certification Marks – counting among the marks relevant for the consumer’s buying decision:

- VDE Marks certify the conformity of the product with national and international standards and its compliance with statutory protection requirements.

- In Europe, the VDE Institute certifies appliance switches, electrical controls, connectors, capacitors and electro-magnetic interference suppression components with the VDE’s ENEC Mark.
- The VDE-GS Mark certifies comprehensive safety as stipulated by the German Equipment and Product Safety Act.
- The VDE-EMC Mark confirms the electromagnetic compatibility of electrical and electronic components.

Other services include:

- CB certificate
- Declaration of conformity for CE marking in Europe
- International certification service, e.g. CCC marks for access to the Chinese market
- Substance declaration records





The VDE Institute's network:

For national and international registration of your products

In addition to awarding the VDE Mark, the VDE Institute also conducts a wide range of tests based on national and international standards and regulations and on the basis of the international quality assessment system for electronic components (IECQ system). They pave the way for the registration of your products in nearly all countries around the world. In addition, cooperation agreements with local partners enable rapid and smooth access to the global market - Europe, Asia, North and South America or Africa. The VDE's international certification service offers efficient processing to obtain foreign test marks and certificates for your chosen export destination. In Europe, the

VDE is represented in Italy, France, Spain, Switzerland, Poland, Russia, Belarus and Turkey, among other countries.

In Asia, the VDE has offices in China, Hong Kong, Taiwan, Japan and Korea.

Manufacturers of electrical and electronic components benefit at all times and in all places from the advantages of this network: Reduction of cost and time to market through easily accessible and high-value services of the VDE.



Global neutrality, competency, testing technology, standards expertise:

VDE qualities that benefit your product!

You can benefit from the globally acknowledged performance capability of the VDE Institute – in more ways than one:

- Thanks to the VDE's participation in the standards committees, manufacturers benefit from the most up-to-date information when developing their products.
 - Neutral testing by the VDE Institute signifies more safety in the development, manufacture and deployment of electrical and electronic components, modules and systems.
 - Facilitated market access because the responsible admission organizations
- around the globe value the high level of testing quality of the VDE Institute.
- Manufacturers of appliances and industrial equipment and craftsmen like to use components bearing the VDE Mark because they have the assurance that these have been meticulously tested for safety.
 - Purchasers and consumers all over the world know the VDE Marks and use them as a decision-making aid when purchasing safe products.

The services offered by the VDE Institute:

Comprehensive support that includes a full range of options

Product safety

- Testing of conformity during the development process
- Risk assessment
- Safety tests
- Endurance tests
- Switching capacity tests
- High energy tests
- Testing of the fire behaviour and resistance to tracking of insulating materials
- Assessment of enclosures (IP protection classes)
- Operation manuals and assembly instructions (VDE SMART Manual)
- Client-specific tests

Health, Environment and Sustainability

- Electromagnetic compatibility (EMC)
- Environmental testing
- Chemical substance analyses (e.g. RoHS, PAHs)

Management/Organisation

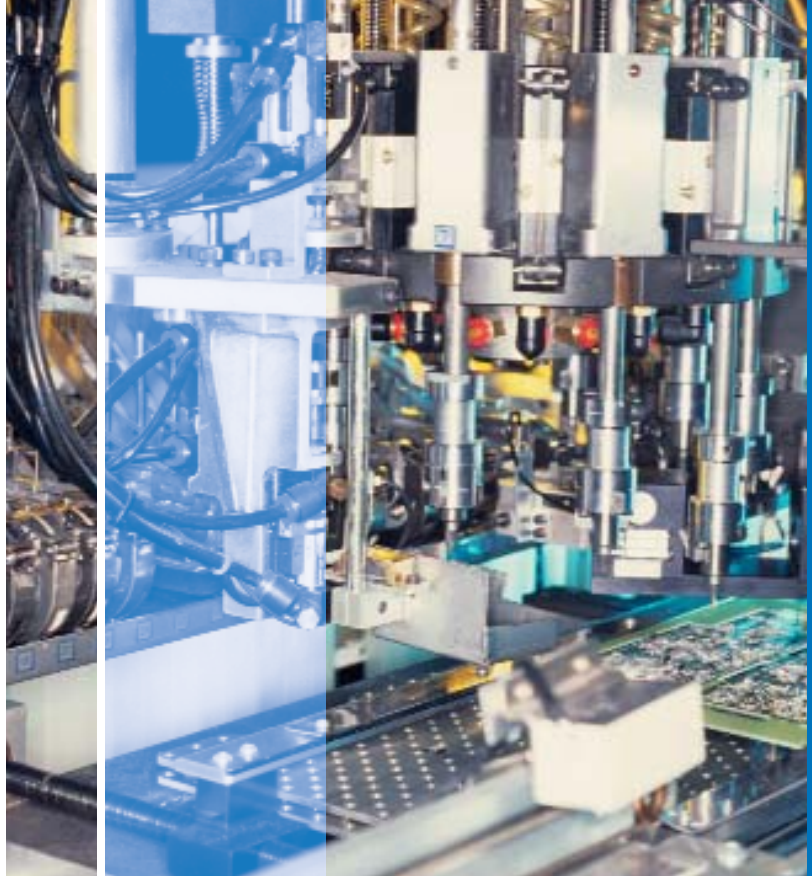
- Assessment of management systems
- Procurement process support
- Testing and qualification of subcontractors

Conformity Control/Inspection

- Goods inspections
- Inspection and assessment of production preparation, ongoing production or products prior to despatch
- Factory inspections and assessment

International Services

- Expert opinions on worldwide compliance with legal requirements and standards
- International certification service
- Import and export support from any location to any market



**Benefit from competency, experience and service –
at any and all times!**

Your contacts at the VDE Institute:

- Head of Department
Wolfgang Niedziella
Tel.: +49 69 8306-677
Fax: +49 69 8306-765
E-mail: wolfgang.niedziella@vde.com
- Customer Service
Dr. Günter Schipper
Tel.: +49 69 8306-226
Fax: +49 69 8306-493
E-mail: guenter.schipper@vde.com
- Switches for Appliances and
fixed Installations, Controls, Miniature Fuses
Norbert Leberl
Tel.: +49 69 8306-365
Fax: +49 69 8306-765
E-mail: norbert.leberl@vde.com
- Low-Voltage Switchgear, Protective
Devices, Electrical Components,
Environmental Tests
Andreas Bretz
Tel.: +49 69 8306-322
Fax: +49 69 8306-636
E-mail: andreas.bretz@vde.com
- Relays, Connecting Systems,
Special Components
Gebhard Kohler
Tel.: +49 69 8306-345
Fax: +49 69 8306-716
E-mail: gebhard.kohler@vde.com

VDE Testing and Certification Institute
Merianstrasse 28
63069 Offenbach/Main, Germany

www.vde.com