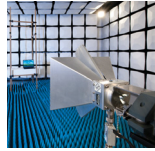




KRIWAN Testzentrum is your accredited partner for evaluation, testing, qualification and certification.



EMC

Environmental Simulation

Fire Detection

Environmental Simulation

Our laboratory for environmental simulation offers you a wide range spectrum of mechanical, climatic and corrosive tests. Below are some examples of our variety of services:

- Sine, Broadband Random, SOR, Multisine and Mechanical shock including temperature profile
- Climate- and Temperature test -70°C to +180°C
- Corrosion testing under salt fog and aggressive gas conditions
- Chemical and medium resistance acc. to ISO 16750-5, LV 124
- Solar simulation e.g. acc. to DIN 75220 and EN 60068-2-5
- Splash water test acc. to ISO 16750-4, LV124
- Ice water immersion test acc. to 16750-4, LV124
- Temperature shock in air acc. to DIN EN 60068-2-14
- Temperature shock in oil
- IP-Protection class acc. to EN 60529, ISO 20653
- Dew / Condensation test (K-15a from LV 124)
- Stone impact test acc. to DIN EN ISO 20567-1
- Low air pressure acc. to DIN EN 60068-2-13
- Connector validation (LV and HV vehicle power supply) with continuous monitoring of contacts interruptions <1 µs und > 7 Ohm (LV214).
- Automotive Validation according to OEM-Specifications such as BMW GS 95024, MBN 10306, VW80000, MAN M 3499, JDQ 201
- Railway Validation according to EN 50155
- Shipping Validation according to DNV-CG-0339, EN 60945
- Automation with LabVIEW
- **NEW:** testing equipment for HV: Process Thermostat, Delivery pressure max. 3.1 bar, -90°C ... +320°C, Volume flow max. 65 L/min

Accreditation



EMC – Electromagnetic Compatibility

In our modern EMC laboratory, we carry out EMC measurements in compliance with international standards (IEC-, ISO-, EN- CISPR) and individual customer specifications.

Products and Standards

Qualified EMC measurements and a comprehensive range of services are our field of action. Below are some examples of our capabilities.

- Automotive components (12 V, 24 V and HV vehicle power supply) e.g. ISO 11452-x; ISO 7637-x, CISPR25, ISO 10605
- Railway components e.g. EN 50155 and EN 50121-3-2
- Fire detection technology e.g. EN 50130-4 and EN 54-25
- Industrial products e.g. Generic Standard EN 61000-6-1, -2, -3, -4; EN 61326-1
- Shipping and Offshore e.g. EN 60945 (ABS, BV, DNV, ...)

Voltages

- 230 / 400 V AC; 12 / 24 V DC; 110 V DC
- **NEW HV:** 1500 V DC, 150A, 30kW

Product marking

For placing your products on the market and for CE-Marking we carry out tests acc. to EMC Directive (2014/30/EU) for you.

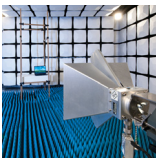


Marking for compliant products.

KRIWAN Testzentrum is certified from Kraftfahrt Bundesamt as a Technical Service



Electrical/electronic subassembly (EUB) approval with regard to EMC according to Regulation UN ECE R10



EMC – Electromagnetic Compatibility

We offer you a wide range of measurement options and well-founded know-how for the EMC of railway components, image processing, power tools, vehicle electronics, small motors, process control technology, control technology, weighing technology and much more.

EMC-Engineering from the idea to series production.

We cover the entire subject area for you:

- EMC regulations and standards
- EMC compliant design of systems, devices and circuits
- Measurements accompanying development, incl. optimization
- Troubleshooting and suggestions for suppressing and increasing interference immunity
- Consulting for procurement of EMC interference suppression technologies and measuring equipment

Porsche Engineering + 

Together we offer you customized EMC services. Concept development, accredited release measurement or troubleshooting. We are at your side as an experienced team.

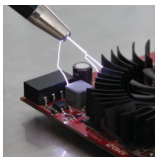
Accreditation



Deutsche
Akkreditierungsstelle
D-PL-12091-01-01



Deutsche
Akkreditierungsstelle
D-PL-12091-01-02



Fire Detection

Testing and Certification of the following product groups according to the respective product standards:

Smoke alarm devices

- Acc. to EN 14604
- Additional requirements for smoke alarm devices
- Acc. to Q-Label 2.0 and DIN SPEC 91388
- Tests including documentation to obtain the independent quality mark for smoke alarm devices



- Radio-networked smoke alarm devices acc. to DIN SPEC 91449
- Quality Check for smoke alarm devices. Ideal for importers / dealers for quality control, e.g. as an independent series-accompanying test

Hold-Open Devices

- Acc. to APF approval areas Z-6.510, Z-6.500, Z-6.7 and special approvals
- Expert opinions for individual approval or project related type approval
- Fire protection closure acc. to EN 16034

Components for fire alarm systems

According to the relevant parts of the EN 54-series:
EN 54-2 / -3 / -4 / -5 / -7 / -11 / -13 / -17 / -18 / -25 / -29

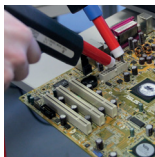
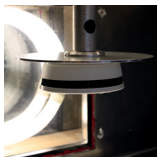
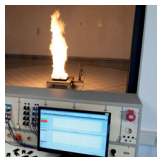
Smoke and heat exhaust systems

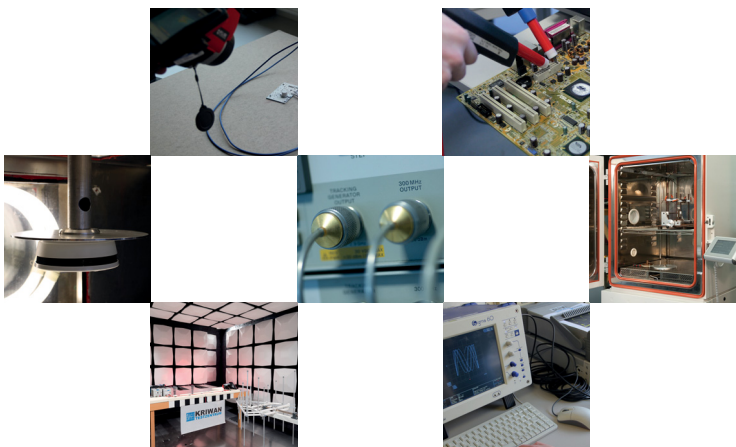
Testing and Certification acc. to EN 12101-10
and ISO 21927-9 according to DIN 18232-9

Door closer / Hold-Open Devices

According to EN 1154 and EN 1155

Accreditation Laboratory and Certification Body





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