

ABOUT US

The FZI Research Center for Information Technology at the Karlsruhe Institute of Technology is a non-profit institution for applied research in information technology and technology transfer.

Its task is to provide businesses and public institutions with the latest research findings in information technology. It also qualifies young researchers for their career in academics or business as well as self-employment. They also come to the FZI to do research for their doctorate.

Led by professors from different faculties, research teams at the FZI interdisciplinarily develop and prototype concepts, software, hardware and system solutions for their clients.

As a non-profit institution of civil law, the FZI works for and with companies and public institutions of every size: small businesses and concerns, regional administrations, the Federal Government and the Federal States of Germany, and the EU.

The FZI is certified by the KNX Association as a test laboratory for the communication standard KNX according to ISO 17025.

In addition to that, the FZI operates a PROFIBUS test laboratory. The FZI is accredited by the PROFIBUS user organization „PROFIBUS Nutzerorganisation e.V. (PNO)“ as a competence centre and test laboratory for the communication standards PROFIUS Basic and PROFIBUS PA.

All divisions of the FZI are certified according to DIN EN ISO 9001:2008.

CONTACT US

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KNX TEST LABORATORY AT THE FZI

Interworking and functional tests for building automation technology devices with the KNX communication standard





QUALITY CREATES TRUST

Your KNX devices meet the high quality demands of building automation. With a certificate, you prove it to your customers and thereby enhance confidence in your devices. This is the basis for the success of your devices on the market.

The FZI Research Center for Information Technology has an accredited test laboratory for the KNX communication standard. All test engineers at the FZI are certified KNX partners.



OUR OFFER

- Interworking and functional tests according to the KNX manual
- Full confidentiality (restricted areas, safekeeping)
- Full vendor independence
- Approved QM system according to ISO 17025 with annual accreditation by the KNX Association
- Conversation in German, English and Spanish

THE WAY TO YOUR DEVICE CERTIFICATE

1. First, you as a device manufacturer have to register your hardware and/or software with the KNX Association.
2. Afterwards, you send us your request so that we can make you a written offer and provide a cost evaluation on the certification tests.
3. After commissioning, you submit the device to be tested as well as the related documents to us.
4. The tests are carried out on the basis of agreed test guidelines. If any problems should arise, we will work out a solution with you.
5. You will receive a test report after the certification test is done. With a positive test report and a CE manufacturer's declaration, you can apply for a certificate at the office of the KNX Association. The certificate has to be handed in not later than six months after the registration.

OUR SERVICES

As an experienced research partner, we support you in the research and realization of innovative ideas and technologies. In addition to the testing of devices with KNX interface, our portfolio comprises further development and research services in the field of building automation and beyond:

- Conception and realization of comprehensive end user scenarios
- Embedded design and model-based development
- Connection of your devices/firmware to middlewares and mobile apps
- Design, analysis and evaluation of design alternatives for device networks and communication networks

ORGANIZATIONAL STRUCTURE

The KNX test laboratory at the FZI is organizationally assigned to the research division „Embedded Systems and Sensors Engineering (ESS)“. Our researchers investigate innovative technologies, design and test methods as well as applications for embedded systems.

The KNX test laboratory is located at the FZI House of Living Labs, an innovative research environment covering an area of approximately 27,000 ft² (2,500 m²) that also serves as evaluation platform for application-oriented ICT technologies.