



Add value.
Inspire trust.

Smart, safe and secure

Capitalise on new opportunities with our smart home testing and certification services

Your challenges

Huge gains in technological sophistication have led to rising consumer demand for the 'House of the Future'. Smart homes are capable of operating autonomously and adjusting to the needs of those who occupy them. With smart homes and the Internet of Things (IoT) fast becoming an integral part of everyday life, property developers and product manufacturers must be prepared to meet their clients' needs with security and safety at the forefront. Pioneers of smart home technologies face the multi-faceted challenge of ensuring their products meet customer expectations while simultaneously guarding against potential cybersecurity and product failure risks.

What are smart homes?

The smart homes category covers a range of different products including intelligent energy and security solutions, connected home entertainment systems and healthcare devices. Integrating individual products into the overall smart home solution poses significant challenges, even for established manufacturers. Beyond

core competencies, manufacturers must employ know-how in areas as diverse as wireless radio transmission and software.

Why is smart home testing important for your business?

While smart home systems and intelligent home automation devices have been around for years, they have widely been considered high-end luxury products. Now these technologies are gaining momentum, experts believe they will soon conquer the mass market. This presents a major opportunity for importers, distributors and manufacturers of devices with the relevant functions.

But in order for the smart home market to realise its full potential, consumers must have absolute trust in their homes and devices. By engaging the expertise of an experienced and globally trusted certification agency such as TÜV SÜD, you can ensure your projects meet the key criteria of safety and usability that are prerequisites for public acceptance of your smart home solutions.



How can we help you?

Our experts are intimately familiar with the regulatory requirements of key markets such as the European Union. With unique across-the-board expertise in all smart home products, we can provide comprehensive and professional one-stop support to help you succeed in this new market from the onset.

Our smart home testing and certification services

▪ **Wireless testing**

Our experts can assist you in testing and ensuring the synchronicity of the wireless capabilities of your smart home devices and products.

▪ **EMC and electrical safety**

TÜV SÜD is capable of testing for electromagnetic immunity and emissions, and advising where necessary to ensure your smart home products adhere to the necessary standards.

▪ **Data security**

We can help you ensure secure smart home functionality and usability, for instance ISO/IEC 25051:2006 and EN ISO 9241 (Ergonomics of human-system interaction) or penetration tests.

▪ **Chemical, battery lifetime and usability testing**

In addition to certifying the adherence of your smart home devices and components to local and international safety standards, our expert teams can also assist you in maintaining consumer satisfaction by ensuring quality and workmanship, chemical safety, endurance tests, ergonomics, functionality, and overall cohesion.

Your business benefits

- **Save time and money** – by ensuring compliance from the onset of design, thereby avoiding costly and time-consuming rework.

- **Minimise risk** – by avoiding supply chain problems that can result in product recalls and reputational harm.
- **Gain a competitive edge** – by demonstrating your commitment to standards and delivering products of consistent quality and safety, without compromising time to market.
- **Access global support** – with our worldwide expertise in regulations and requirements, regardless of where your products are manufactured or sold.

Why choose TÜV SÜD?

TÜV SÜD is universally recognised as an independent and impartial third-party service provider. By partnering with us, you benefit from our acclaimed track record in quality and safety. We provide exceptional customer service and technical support, ensuring that our clients always come first.

Our quality standards are rigorous and tailored to market requirements. Globally renowned and accepted by all major brands, retailers and authorities, TÜV SÜD certification marks help to differentiate you from competitors.

Add value. Inspire trust.

TÜV SÜD is a premium quality, safety and sustainability solutions provider that specialises in testing, inspection, auditing, certification, training and knowledge services. Represented in over 1,000 locations worldwide, we hold accreditations in Europe, the Americas, the Middle East, Asia and Africa. By delivering objective solutions to our customers, we add tangible value to businesses, consumers and the environment.

Related services

TÜV SÜD provides the following related services:

- CE Marking
- NRTL testing and certification for the U.S. market
- FCC
- GS Marking
- EMC testing
- RED
- RoHS services
- REACH