Enhance your device's interoperability

Use KNX Services by UL Solutions to help strengthen your building's interoperability and automation of appliances, HVAC and lighting

Building automation needs interoperability – KNX can help make it work.

KNX, a global standard for home and building control
The KNX standard is the successor to the three previous standards: BatiBUS, the European Installation Bus (EIB) and the European Home Systems Protocol (EHS).

KNX is approved as:
- European Standard (CENELEC EN 50090 and CEN EN 13321-1).
- International Standard (ISO/IEC 14543-3).
- Chinese Standard (GB/T 20965).

With the KNX ecosystem, architects, designers, contractors and builders can optimize their installation and maintenance costs and secure a maximum level of interoperability with other manufacturers' equipment, devices and controls.

In addition to performance, the standard describes quality requirements for functional and environmental safety, electromagnetic compatibility (EMC) and reliability.

KNX is suitable for applications and functions in home and building control such as:
- HVAC control
- Lighting control
- Blind and shutter control
- Security systems control
- Home and building automation and remote access
- Energy management system

UL Solutions

Benefits:

To help ensure compliance, functionality and interoperability of your KNX products, our experts provide you with comprehensive testing and certification services in cooperation with the KNX Association.

Services:

- Certification testing of your KNX devices to help ensure interoperability and functionality
- Qualified experts with comprehensive knowledge of wireless technologies and standards
- Extensive comprehensive service solutions for connected appliances and Internet of Things (IoT) devices

UL Solutions services include:

- Application software checks
- Engineering Tool Software (ETS®) plug-in checks
- Interoperability and functionality tests
- Implementer training

Our KNX certification test follows the KNX standard Part 5, KNX Certification of Products.

In addition, we offer further testing for:

- End-to-end interoperability
- Functional safety
- Product and system safety and performance
- Cybersecurity and IoT rating
- DALI2 - D4i protocol testing for lighting applications

KNX Association operates as a nonprofit organization. The association consists of major companies active in the fields of home automation and building control. Currently, the organization includes more than 340 members and possesses partnership agreements with more than 40,000 installer companies in 125 countries, more than 100 technical universities and over 275 training centers.

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UL Solutions

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