TESTING AND CERTIFICATION FOR THE
BUILT ENVIRONMENT

FIRE DETECTION AND SECURITY SYSTEMS

SECURING YOUR
PRODUCT'S SAFETY

UL (Underwriters Laboratories) is a global independent safety science company with more than a century of expertise in standards development, testing and certification. With pioneering innovations in safety, sustainability, renewable energy and nanotechnology, UL exemplifies a profound dedication to safe products, as well as people-friendly living and working environments.

For the built environment, UL offers wider market access than any other certification organization, with facilities covering both fire detection and security system testing and certification.

Established in the U.S. in 1894, UL now operates internationally, offering a comprehensive range of services to help manufacturers gain the compliance and performance credentials they need to compete in the global marketplace.

COMPREHENSIVE SOLUTIONS FOR THE BUILT ENVIRONMENT

Building on our tradition as a safety pioneer, today UL continues to drive expertise in the areas that matter to the life safety industry, providing services for both the European CE (EN54) and the North American (UL) markets, complemented by our EMC and FCC wireless solutions, as well as our ATEX, IECEx and North American hazardous area services.

UL's state-of-the-art testing and research facilities serve all key industry segments of the built environment. Our comprehensive suite of services keeps us at the forefront of product development, testing and certification, so we can provide our clients with global solutions at the local level.

We know that market success can depend on timely certification. Our aim is to help you save time and money by combining testing and certification for both hazardous areas and fire detection and alarm systems.

ONE-STOP CERTIFICATION

FIRE DETECTION
EN54, North America and the Middle East

UL offers the possibility of combining CE (Europe),
C-UL-US (Canada/US), ULC (Canada) and other
certification solutions for global market access.
As our customer you benefit from:

- **The complete solution for multiple markets**
- **Reduced costs**
- **Faster time-to-market**
- **Lower sample requirements**
- **A single, dedicated engineering contact**
- **Options for research testing**

HAZARDOUS AREAS
UL, ATEX, IECEx, INMETRO and EAC

UL is unique in being able to test and certify fire detection
and alarm solutions to EU, North and South American
hazardous location requirements. A single project
submission:

- **Reduces costs**
- **Allows multiple certifications**
- **Eliminates country-by-country administration**
- **Speeds products to market**
- **Allows for simple updating due to product upgrades**

SAFETY AND SECURITY

Fire Detection & Alarm Systems

Whether for smoke, CO, heat detectors, speakers, sounders, beacons, call points, control panels or complete systems, we have the right solution. UL is able to deliver multiple certifications through a single submission, for example the UL-EU mark. This mark includes the certification of products to the relevant harmonized standard(s) required under the Construction Products Regulation (CPR), which is a big step on the road to CE marking your product.

The UL-EU Mark independently demonstrates that all relevant requirements under the CPR have been met or exceeded, in addition to delivering independent manufacturing validation supported by an online database of products under UL certification.

UL covers testing for hEN Standards, including the EN54 series, EMC and FCC testing as well as ATEX, IECEx and hazardous area requirements for the following fire detection and alarm products:
• Smoke alarm devices
• ECDs for Gas extinguishing systems
• Control and indicating equipment
• Fire alarm devices / Sounders
• Power supply equipment
• Heat detectors / Point detectors
• Smoke detectors / Point detectors using scattered light, transmitted light or ionisation
• Flame detectors / Point detectors
• Manual call points
• Smoke detectors / Line detectors using an optical light beam
• Compatibility assessment of system components
• Voice alarm control and indicating equipment
• Short-circuit isolators
• Input/Output devices
• Aspirating smoke detectors
• Alarm transmission and fault warning routing equipment
• Fire alarm devices / Visual alarm devices
• Components of voice alarm systems / Loudspeakers
• Components using radio links

Access Control & Security Systems

Technology is dramatically changing the area of access control. Security devices are becoming increasingly relevant in an insecure world, and technologies have moved far beyond mere lock and key. Today, UL evaluates keypads, biometric scanners, RFID readers and many other devices in the sensitive access control market. Our work with government organisations, specifiers and Authorities Having Jurisdiction have helped UL to become the benchmark for access control in North America and the Middle East.

Technology has also changed the areas of intruder alarms and detection units. With differing requirements for commercial property, residential and banks, UL's targeted testing and certification has become critical for market acceptance and global success.

To help your business succeed in global markets, UL tests and certifies your cutting-edge security technologies, such as:
• Access control system units
• Central station alarm units
• Intrusion detection units
• Audible signal appliances
• Police station alarm units
• Proprietary alarm units
• Local burglar alarm units and systems
• Anti-theft alarms and devices
• Household fire alarm units
• Household burglar alarm units
• Features for false alarm reduction
• Burglary-resistant electric locking mechanisms
• Key locks
• Combination locks

Electromagnetic Compatibility

Products dealing with electronics need to be tested for electromagnetic compatibility (EMC) in order to demonstrate legal compliance for their key global markets. UL provides you with efficient EMC compliance testing services to meet your time-to-market needs, and avoid costly mistakes that delay product launch.

UL's automated, full-service EMC labs are accredited to test and certify in all major markets, including the U.S., Europe, Japan, Canada, Taiwan, China and Australia. We offer tailored testing solutions, using software automation to enhance process efficiency, analyse results and reduce testing cycles to save you money.

Wireless/Radio Service

With more and more products needing wireless capability to compete in a rapidly changing market place, UL labs also fully support wireless/radio compliance testing and approvals.

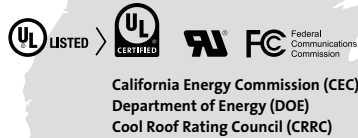In addition, UL provides a complete range of services for:
• SAR
• HAC
• OTA
• Bluetooth® (RF, Protocol and Profile)
• Cellular conformance (2G, 3G, 4G RF and protocol)
• Point-to-point microwave

UL is registered as a TCB/FCB for the U.S. and Canada and is also a Notified Body for the EMC and R&TTE Directives (2004/108/EC and 1999/5/EC) for Europe.

MARK YOUR SUCCESS WITH
GLOBAL MARKET ACCESS

Canada

Industry Canada

United States

Federal Communications Commission

California Energy Commission (CEC)
Department of Energy (DOE)
Cool Roof Rating Council (CRRC)

Dual Certification for the US and Canadian markets:

UL Listing Mark

Recognized Component Mark

European Certifications:

UL Mark for Europe

CE Marking

ENEC Mark

ATEX Directive

UL-UK

Denm...

Germ...

France

CONUEE   **COFETEL**

Mexico

Combined Certification for the US, Canadian and EU market:

UL Mark for Europe, Canada and the United States

UL benefits customers by getting their products to global markets more efficiently, more quickly and less expensively.

Here's an example: the combined C-UL-US-EU Mark demonstrates that a product is covered by appropriate certifications for the critical markets of Europe and North America. Manufacturers need to submit only one product and work with a single team of UL testing experts to gain a Mark that opens the door to transcontinental approvals. Using UL for multiple certification may also reduce the number of inspections at a manufacturing site, offering more savings in time and money.

UL offers comprehensive testing and certification services for most major global markets: in Europe, the U.S., China, Brazil and beyond...

INMETRO   **BR OCP-0025**   **ANATEL**

Brazil

Chile

SUBTEL (Subsecretaria de Telecomunicaciones)

AR   **CNC**

Argentina

Russia

Custom Union Certifications for Russia, Belorussia and Kazakhstan:

EAC — Eurasian Conformity Mark

GOST K (Certificate of Kazakhstan)

mark

many

Korea

UL-JP

UL CERTIFIED

UL Japan

VCI

PSE
UL Japan

F★★★★

Japan

Israel

SII

MoC (Ministry
of Communications)

Kuwait Conformity Assurance
Scheme (KUCAS)

Ministry of Communications
(MOC)

Kuwait

**SRRC Approval
(State Radio
Regulatory
Commission)**

CCC

China

Taiwan

Saudi Arabia

Conformity
Certificate Scheme

CITC (Communications and
Information Technology
Commission)

United
Arab Emirates

**Compulsory
Registration
Scheme (CRS)**

WPC Approval (MoC)

India

OFCA Approval
EMSD Approval
Hong Kong

NBTC

Thailand

Malaysia

MS SIRIM

QAS SIRIM

**ST Certificate
of Approval**

International Certifications:

IEC / IECEE CB SCHEME — IECEE CB Scheme

IEC / IECEx — IEC IECEx Scheme

ENERGY STAR®

123456 – 15

iDA
SINGAPORE
Singapore

Indonesia

SN | XXXXX/SDPPI/YYYY
ZZZZ

International Sustainability Services:

CERTIFIED — UL Environmental Product Declaration

VALIDATED — UL Claim Validation

GREENGUARD — UL GREENGUARD Certification

ECOLOGO — UL ECOLOGO Certification

UxxxxxxEA
Certificate of
Approval/Compliance

Australia

South
Africa

Letter of Authority
Certificate of Compliance

ICASA

UxxxxxxEA
Certificate of
Approval/Compliance

New Zealand

GET AHEAD WITH AN EARLY START

Unlike other organisations, UL is available to provide you with support early in the concept and design process – sometimes before there is even a physical product or detailed drawings. That can give you a decisive competitive edge.

Submitting products for testing and evaluation after development often reveals test issues or necessary design changes to meet market requirements. This adds time and expense to the process, tying up development teams and delaying other projects in the product pipeline.

Instead, UL can join your process from the beginning, to discuss standards, evaluate design viability ideas and provide key feedback to minimise project risks. UL can also schedule upfront testing at key stages, so that certification testing and development can run parallel.

As a result, your products reach their markets quicker and more cost-effectively.

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