Fire Alarms Testing

Ensure product quality, safety and compliance and achieve the required certificates to reach your target markets

Fire alarm and detectors are a critical element in any fire safety system. Their importance and complexity has grown due to the integration of electronics and new communication protocols amongst the different active fire protection elements. To be marketed in Europe, fire alarm systems must pass a testing and certification process according to harmonized standards (EN) and Construction Products Regulation. Other markets such as Middle East also recognize European standards but only if test reports and certificates have been issued by a laboratory or a certification body recognized by the government of the target country.

Solution
Applus+ Laboratories offers comprehensive testing and certification services for fire alarm manufacturers and distributors. Our ISO/IEC 17025 accredited laboratories (consult all our accreditations) have the following capabilities for fire alarms:

- Tunnel and Chamber Fire Detection
- EMC
- Electrical Safety and Functionality
- Vibrations and Acoustics
- Climatics and SO₂
- Software Validation
- System Compatibility

Our test accreditation covers the following products:

- Control panel and indicating equipment (EN 54-2)
- Power supply systems (EN 54-4)
- Sounders (EN 54-3), Voice alarm controls (EN 54-16) and Loudspeakers (EN 54-24)
Heat and Smoke Detectors (EN 54-5 and EN 54-7)
Manual Call Points (EN 54-11)
Short-circuit isolators (EN 54-17)
Input/output devices (EN 54-18)
Extinguishing components and panels (EN 12094-X)
Autonomous Smoke Alarm Devices (EN 14604)
Components using radio links (EN 54-25)
Flame Detectors – Point Detectors (EN 54-10)
Aspirating Smoke Detectors (EN 54-20)
Alarm Transmission and Fault Warning Routing Equipment (EN 54-21)
Compatibility assessment for systems components (EN 54-13)

Thanks to our accreditations and recognitions, we help manufacturers to ensure compliance and reach their targets.

- **CERTALARM** – Applus+ is Recognized Testing Laboratory (RTL) and Contracted Certification Body (CCB)
- **Europe: CE Marking** - Applus+ is Notified Body 0370 for Construction Products Regulation 305/2011 (including EN 54-X, EN 12094-X, EN 14604). We are also Notified Body for EMC and RED.
- **Middle East Certifications**: UAE, OMAN, QATAR, KUWAIT (Civil Defense)
- **China**: Support and management of the CCC mark
- **Russia**: Support and management of the EAC mark

**Benefits:**

- Speed up the testing and certification process to shorten time-to-market.
- Applus+ Laboratories, one stop shop to perform the full characterization of your fire alarm system.
- A single certification partner to access multiple markets.