

Global Smart Fire Safety Wireless Terminal Devices Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Smart Fire Safety Wireless Terminal Devices market size was valued at US\$ 1914 million in 2025 and is forecast to a readjusted size of US\$ 3336 million by 2032 with a CAGR of 8.2% during review period.

Smart fire safety wireless terminal devices refer to wireless field devices deployed in building fire protection, fire safety IoT, temporary construction-site fire alarm, residential safety, and industrial fire monitoring scenarios. The core product forms include wireless smoke detectors, wireless heat detectors, multi-sensor fire detectors, wireless manual call points, wireless sounder beacons, wireless input/output modules, gateways, repeaters, translators, NB-IoT/LoRa fire IoT terminals, and wireless terminals for electrical fire, combustible gas, water pressure and water-level monitoring. These devices typically integrate low-power MCUs, optical smoke sensing, thermal sensing, gas sensing, electrical parameter acquisition, battery management, audible and visual alarm functions, tamper detection, self-diagnostics, and remote status reporting. They transmit alarms, faults, supervisory signals, battery status, and device health data through NB-IoT, LoRa/LoRaWAN, Sub-GHz RF, mesh networks, Wi-Fi, cellular networks, or proprietary dual-band radio protocols. This study focuses on wireless field terminal hardware and closely coupled gateways or repeaters used for fire safety detection, alarming, monitoring, and system integration.

Based on our research, smart fire safety wireless terminals should be understood as a life-safety field-device category rather than a generic IoT hardware segment. In mature Western markets, wireless fire devices are primarily positioned as extensions to certified fire alarm systems, with strong emphasis on supervised communication, fault reporting,

redundant radio paths, fire panel integration, and compliance with local fire alarm standards. In China, the category is more closely linked with NB-IoT and LoRa-based smart smoke alarms, electrical fire monitoring terminals, gas detection terminals, water system monitoring devices, and city-level fire safety IoT platforms. The common value proposition is the reduction of wiring cost, faster deployment, and lower disruption in retrofit projects, but the commercial logic differs significantly by region.

Demand growth is being driven by four major use cases. The first is retrofit and heritage-building protection, where hardwiring is costly, disruptive, or aesthetically unacceptable. The second is temporary fire protection in construction sites, refurbishment projects, vacant buildings, and temporary structures, where fully wireless and battery-powered systems can be deployed quickly and relocated as the project changes. The third is fire safety coverage for previously under-protected small premises, old residential communities, villages-in-city, small shops, schools, and community facilities, especially in China. The fourth is residential smart safety, where connected smoke and CO alarms are increasingly integrated with mobile alerts, interconnection functions, and optional monitoring services.

From a technology perspective, the product roadmap is moving from basic connected smoke alarms toward multi-sensor, self-diagnostic, tamper-monitored, low-power and remotely managed devices. In commercial applications, the most important technical requirements are radio reliability, redundancy, long battery life, certified detectors, fault supervision, panel integration, and installation diagnostics. In Chinese smart fire safety deployments, the key features are NB-IoT/LoRa coverage, cloud connection, device mapping, remote silencing, battery and contamination monitoring, multi-channel alert pushing, and integration with municipal or property-management fire safety platforms. Wireless terminals are unlikely to fully replace wired fire alarm systems in high-risk or large commercial buildings; instead, they will grow as a retrofit, supplementary, temporary, and coverage-extension layer.

The growth outlook is stronger than the traditional fire alarm hardware market, but more constrained than general IoT devices because fire safety products face certification, liability, maintenance, battery replacement, and installation-code requirements. Future competition will be shaped by three forces: global fire alarm OEMs defending high-value certified system positions, specialist wireless suppliers expanding in retrofit and temporary-site niches, and Chinese vendors scaling cost-effective NB-IoT/LoRa terminals through city-level fire safety digitalization projects.

This report is a detailed and comprehensive analysis for global Smart Fire Safety

Wireless Terminal Devices market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Smart Fire Safety Wireless Terminal Devices market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Smart Fire Safety Wireless Terminal Devices market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Smart Fire Safety Wireless Terminal Devices market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Smart Fire Safety Wireless Terminal Devices market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Smart Fire Safety Wireless Terminal Devices

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Smart Fire Safety Wireless Terminal Devices market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Siemens AG,

Honeywell International Inc., Johnson Controls International plc, Hikvision, Resideo Technologies, Inc., Zhejiang Dahua Technology Co., Ltd., Halma plc, Gentex Corporation, Keenfinity Group, Kidde Global Solutions, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Smart Fire Safety Wireless Terminal Devices market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Wireless Smoke Detector

Wireless Heat Detector

Wireless Manual Call Point

Wireless Sounder / Beacon

Other Wireless Fire Terminal

Market segment by Power Supply Mode

Battery-powered Terminal

External Power with Backup Battery

Other

Market segment by Installation Method

Ceiling-mounted Terminal

Wall-mounted Terminal

Other Installation Method

Market segment by Redundancy Design

Single-path Terminal

Dual-path Terminal

Other

Market segment by Application

Heritage Building Protection

Residential Smart Fire Safety

Industrial Risk Monitoring

Other Application Scenario

Major players covered

Siemens AG

Honeywell International Inc.

Johnson Controls International plc

Hikvision

Resideo Technologies, Inc.

Zhejiang Dahua Technology Co., Ltd.

Halma plc

Gentex Corporation

Keenfinity Group

Kidde Global Solutions

Hochiki Corporation

Siterwell Electronics Co., Limited

Ei Electronics

Jade Bird Fire Co., Ltd.

Eurofyre Ltd.

Labor Strauss Sicherheitssysteme GmbH

NAPCO Security Technologies, Inc.

X-Sense Innovations Co., Ltd.

Wuhan Turboes Technology Co., Ltd.

Shenzhen CHITD Electronic Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Smart Fire Safety Wireless Terminal Devices product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Smart Fire Safety Wireless Terminal Devices, with price, sales quantity, revenue, and global market share of Smart Fire Safety Wireless Terminal Devices from 2021 to 2026.

Chapter 3, the Smart Fire Safety Wireless Terminal Devices competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Smart Fire Safety Wireless Terminal Devices breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Smart Fire Safety Wireless Terminal Devices market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Smart Fire Safety Wireless Terminal Devices.

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