

Active Fire Protection System Market – Global Industry Size, Share, Trends, Opportunity, and Forecast.Segmented By Product (Fire Suppression, Fire Detection, Fire Sprinkler, Fire Analysis, Fire Response), By Services (Engineering, Installation & Design, Managed, Maintenance), By End User (Commercial, Industrial, Government, Residential, Others), By Region, By Company and By Geography, Forecast & Opportunities, 2018-2028

<https://marketpublishers.com/r/A6A5F027F018EN.html>

Date: November 2023

Pages: 182

Price: US\$ 4,900.00 (Single User License)

ID: A6A5F027F018EN

Abstracts

The global Active Fire Protection System (AFPS) market stands at the forefront of enhancing fire safety across a wide spectrum of industries and environments. With a steadfast commitment to safeguarding lives, assets, and property, AFPS has evolved from traditional fire detection and suppression mechanisms to encompass a diverse range of cutting-edge technologies and solutions. This market's growth is propelled by an amalgamation of factors that collectively underscore its significance in today's safety-conscious world.

The AFPS market is underpinned by a strong undercurrent of regulatory compliance and stringent safety standards. Governments and regulatory bodies across the globe have recognized the critical importance of fire safety, leading to the formulation and implementation of robust regulations that mandate the integration of advanced fire protection systems. The stringent enforcement of building codes and fire safety norms is driving industries, ranging from commercial and residential to industrial and healthcare, to adopt sophisticated AFPS solutions. This regulatory landscape acts as a catalyst, compelling businesses to prioritize comprehensive fire safety measures and contributing

to the market's consistent growth.

In parallel, the growing awareness of the devastating consequences of fire incidents has permeated both public consciousness and corporate priorities. High-profile fire accidents have underscored the urgency of efficient fire detection, rapid response, and effective suppression. This heightened awareness has led to a shift in mindset, with businesses and individuals alike proactively seeking out advanced AFPS technologies. Fire safety education campaigns, media coverage of fire incidents, and advocacy by fire safety organizations have collectively sensitized consumers to the pivotal role of early detection and prevention. Consequently, there is a palpable demand for AFPS solutions that offer enhanced accuracy, reliability, and real-time monitoring capabilities.

The global landscape of infrastructure development and construction activities is an instrumental driver of the AFPS market. Urbanization, industrialization, and ambitious construction projects have surged across continents, necessitating the incorporation of state-of-the-art fire safety measures. From towering skyscrapers and sprawling commercial complexes to critical infrastructure facilities, every construction endeavor demands the integration of AFPS to mitigate fire-related risks. This trend aligns with the commitment to protect occupants, assets, and investments, amplifying the demand for advanced fire detection, alarm, and suppression systems.

Technological innovation lies at the heart of the AFPS market's evolution. The market is witnessing a remarkable convergence of technologies such as the Internet of Things (IoT), artificial intelligence (AI), and data analytics. Smart fire protection systems are emerging as a dominant trend, equipped with real-time monitoring capabilities, predictive analysis, and remote-control functionalities. IoT-enabled sensors detect fires in their nascent stages, AI algorithms enhance detection accuracy, and data analytics provide insights for preventive maintenance. These technological advancements enable facilities to respond swiftly to emerging fire risks and offer a new dimension of proactive fire safety.

Furthermore, sustainability has woven itself into the fabric of the AFPS market. Businesses are placing an increasing emphasis on environmentally friendly and energy-efficient solutions. Fire suppression agents with minimal environmental impact and reduced global warming potential are gaining traction. Sustainable fire protection systems consider the entire lifecycle of products, from manufacturing to disposal, aligning with global sustainability goals and responsible environmental practices.

In conclusion, the global Active Fire Protection System market exemplifies a

convergence of regulatory mandates, heightened awareness, technological innovation, and environmental consciousness. This market's growth trajectory is propelled by the imperative to ensure the safety of lives, assets, and property in a world increasingly cognizant of fire-related risks. As technologies continue to evolve and industries prioritize comprehensive fire safety, the AFPS market is poised for sustained growth, transforming the landscape of fire protection across diverse sectors and geographies.

Key Market Drivers

Stringent Safety Regulations and Building Codes:

The increasing emphasis on safety across industries has led to the implementation of stringent safety regulations and building codes worldwide. Government authorities and regulatory bodies require organizations to adopt advanced fire protection systems to ensure the safety of occupants and assets. These regulations create a strong demand for active fire protection systems that comply with safety standards, driving the growth of the market. As countries strive to enhance public safety and prevent fire-related disasters, industries such as commercial, residential, industrial, and healthcare are increasingly investing in cutting-edge AFPS solutions to meet regulatory requirements.

Growing Awareness of Fire Safety:

The rising awareness of the catastrophic consequences of fire incidents has prompted businesses and individuals to prioritize fire safety measures. High-profile fire incidents in the past have highlighted the need for effective fire protection systems. As a result, there is a heightened demand for advanced active fire protection solutions that offer rapid detection, quick response, and efficient suppression capabilities. The media coverage of fire accidents, along with education campaigns by fire safety organizations, has sensitized consumers to the importance of early detection and prevention, spurring the adoption of AFPS technologies.

Expansion of Infrastructure and Construction Activities:

Rapid urbanization, industrialization, and construction projects across the globe are driving the demand for active fire protection systems. New construction projects, as well as renovations of existing infrastructure, require modern and effective fire safety measures. The construction of commercial complexes, residential buildings, airports, hospitals, and manufacturing facilities necessitates the installation of reliable AFPS to ensure the safety of occupants and protect valuable assets. As emerging economies

invest in building robust infrastructures, the AFPS market experiences significant growth due to the mandatory integration of advanced fire protection systems into these projects.

Advancements in Fire Detection and Suppression Technologies:

Technological advancements have revolutionized the active fire protection system landscape. Innovations such as smart fire sensors, intelligent algorithms, wireless communication, and integration with building management systems have elevated the capabilities of AFPS. These technologies enable real-time monitoring, early fire detection, and precise suppression mechanisms, enhancing overall fire safety efficacy. End-users are increasingly attracted to modern AFPS solutions that offer seamless integration with existing systems, reduced false alarms, and enhanced situational awareness, boosting market demand.

Increasing Focus on Property and Asset Protection:

Businesses across industries are recognizing the value of protecting their assets, facilities, and operations from fire-related risks. The potential loss of assets, data, and infrastructure due to fire incidents underscores the importance of investing in robust active fire protection systems. Companies aim to mitigate financial losses, downtime, and reputational damage by implementing advanced fire detection and suppression solutions. In sectors such as manufacturing, energy, and data centers, the safeguarding of high-value assets against fire emergencies drives the adoption of AFPS solutions that offer rapid response and minimal impact on operations.

Key Market Challenges

Complexity of Integration and Compatibility:

One of the key challenges in the AFPS market is the complexity of integrating various fire protection components and ensuring compatibility with existing building systems. Modern buildings often have a multitude of interconnected systems, including HVAC, security, and automation. Integrating AFPS seamlessly into these systems requires specialized expertise, and compatibility issues can arise, leading to operational disruptions and compromised fire safety. Addressing this challenge requires collaboration between AFPS manufacturers, system integrators, and building designers to develop standardized protocols and solutions that facilitate smooth integration and interoperability.

Rapid Technological Evolution and Obsolescence:

The AFPS market experiences rapid technological advancements, leading to the risk of products becoming quickly obsolete. As new innovations emerge, older systems may struggle to keep up with evolving industry standards, leaving end-users with outdated and less effective fire protection solutions. Manufacturers and users alike must navigate the challenge of staying up-to-date with emerging technologies, considering factors such as long-term support, compatibility with future updates, and the potential need for system upgrades to avoid obsolescence.

High Initial Costs:

Implementing comprehensive active fire protection systems involves significant upfront costs. This financial burden can pose a challenge, especially for small and medium-sized enterprises (SMEs) and budget-constrained industries. Organizations may hesitate to invest in advanced AFPS due to concerns about return on investment and the perceived cost-effectiveness of alternative fire safety measures. To address this challenge, manufacturers and industry stakeholders need to emphasize the long-term benefits of AFPS, including reduced property damage, minimized downtime, and enhanced safety outcomes that can justify the initial investment.

Lack of Skilled Workforce:

The design, installation, and maintenance of active fire protection systems require a skilled and knowledgeable workforce. However, there is a shortage of trained professionals who possess the expertise to handle the complexities of AFPS technologies. This shortage can lead to suboptimal system installations, improper maintenance, and compromised fire safety. Addressing this challenge involves investing in training programs, certifications, and educational initiatives to build a qualified workforce that can design, install, and manage advanced AFPS effectively.

Stringent Regulations and Compliance:

While regulations drive demand for AFPS, they can also present challenges for manufacturers and users. Compliance with various regional, national, and international fire safety standards can be intricate and time-consuming. Adhering to different regulations across jurisdictions may lead to complexity and inconsistency in system designs and installations. To overcome this challenge, industry stakeholders must stay

informed about evolving regulations, establish standardized practices that align with global safety standards, and collaborate with regulatory bodies to streamline compliance processes.

Key Market Trends

Emergence of Smart Fire Protection Systems:

The integration of smart technologies, such as Internet of Things (IoT), artificial intelligence (AI), and data analytics, is driving a significant trend in the AFPS market. Smart fire protection systems offer real-time monitoring, predictive analysis, and remote-control capabilities. IoT-enabled sensors can detect fires and other hazards early, triggering alerts and automated responses. AI algorithms analyze data to enhance detection accuracy and reduce false alarms. These systems also enable remote monitoring and control, allowing facility managers and responders to take immediate action from anywhere. The shift toward smart AFPS solutions enhances situational awareness, reduces response times, and facilitates preventive maintenance, ultimately improving fire safety outcomes across industries such as commercial buildings, industrial facilities, and critical infrastructure.

Rise of Eco-Friendly and Sustainable Solutions:

The growing emphasis on sustainability and environmental consciousness is influencing the AFPS market. Manufacturers and end-users are seeking fire protection solutions that are environmentally friendly, energy-efficient, and have minimal impact on human health. This trend has led to the development of fire suppression agents that are less harmful to the ozone layer and have reduced global warming potential. Furthermore, sustainable fire protection technologies consider the life cycle of products, from manufacturing to disposal, to minimize their environmental footprint. These eco-friendly solutions align with the global push toward sustainability goals and are gaining traction across industries that prioritize environmental responsibility.

Integration of Video Analytics for Fire Detection:

Video analytics technology is being integrated into AFPS to enhance fire detection capabilities. Video cameras equipped with advanced analytics can identify smoke, flames, and abnormal heat patterns in real-time. This technology improves early fire detection and reduces false alarms by analyzing visual cues more accurately than traditional smoke detectors. Incorporating video analytics into AFPS also extends its

applications beyond fire detection, providing added security benefits such as intrusion detection, perimeter monitoring, and personnel tracking. This trend is particularly prominent in sectors like commercial spaces, critical infrastructure, and large-scale facilities.

Cloud-Based Monitoring and Management:

Cloud computing is transforming the way AFPS are monitored, managed, and maintained. Cloud-based solutions offer remote accessibility, data storage, and real-time insights into fire protection systems. Building owners, facility managers, and fire safety teams can access system data, receive alerts, and conduct system checks from any connected device. Cloud-based AFPS provide flexibility, scalability, and streamlined maintenance, reducing the need for on-site visits and improving system reliability. This trend is particularly relevant for multi-site enterprises, enabling centralized management of fire protection systems across different locations.

Demand for Fire Safety-as-a-Service:

The concept of Fire Safety-as-a-Service (FSaaS) is gaining momentum in the AFPS market. FSaaS involves outsourcing fire protection services to specialized providers who handle everything from system installation and monitoring to maintenance and compliance management. This model shifts the ownership and responsibility of fire protection systems to service providers, allowing businesses to focus on their core operations. FSaaS offers benefits such as cost predictability, reduced capital expenditure, and access to expert knowledge. It also aligns with the broader trend of businesses embracing subscription-based models for various services. This trend is appealing to organizations seeking hassle-free fire safety solutions without the complexities of system ownership and maintenance.

Segmental Insights

Product Insights

Fire Suppression dominates in the global Active Fire Protection System market in 2022 because this segment's prominence can be attributed to its pivotal function in directly quelling and extinguishing fires, swiftly preventing their escalation and minimizing potential damage. Fire suppression systems encompass an array of technologies, including automatic sprinklers, gas-based suppression agents, and foam-based extinguishing methods. These systems are engineered to detect fires at their early

stages and unleash rapid, targeted interventions to contain flames and reduce the risk of spreading. Their efficacy is particularly evident in high-risk environments such as industrial facilities, data centers, and critical infrastructure where the preservation of sensitive equipment, invaluable assets, and human lives is paramount.

Services Insights

Managed segment dominates in the global Active Fire Protection System market in 2022 because managed services play a pivotal role in orchestrating fire safety strategies that are not only reactive but also proactive. Through continuous monitoring, analysis, and response optimization, managed service providers ensure that fire protection systems remain calibrated, up-to-date, and aligned with the unique risks of each environment. This proactive approach minimizes downtime, reduces false alarms, and enhances the overall efficiency of AFPS solutions, which is particularly valuable in sectors where operational continuity is paramount. Furthermore, managed services bolster organizations' compliance efforts with ever-evolving fire safety regulations. By staying abreast of regional and international standards, managed service providers help clients navigate complex regulatory landscapes, ensuring that their fire protection systems remain in alignment with the latest requirements. This regulatory compliance not only mitigates legal and financial risks but also upholds the reputation and credibility of businesses.

End User Insights

Commercial segment dominates in the global Active Fire Protection System market in 2022 because This segment's prominence is attributed to the critical role of fire safety in safeguarding public spaces, corporate assets, and business continuity. Commercial spaces encompass a broad spectrum of establishments, including office buildings, retail centers, hospitality venues, and entertainment facilities. These environments cater to a substantial volume of foot traffic and host a variety of operations, making fire safety a paramount concern.

In commercial settings, the implementation of active fire protection systems is not merely a compliance requirement but a strategic imperative. Rapid detection, efficient suppression, and seamless evacuation protocols are essential components of ensuring public safety, preventing property damage, and preserving the reputation of businesses. The Commercial segment's dominance is underscored by its collective commitment to adopting state-of-the-art AFPS solutions that mitigate fire risks and facilitate swift responses to emergencies.

Furthermore, the Commercial segment's dominance is augmented by the integration of modern technologies. The advent of smart fire protection systems, IoT-enabled sensors, and real-time data analytics is particularly resonant in commercial spaces, where the interconnectedness of systems enhances situational awareness and enables timely decision-making. These technologies play a pivotal role in not only detecting fires but also providing real-time insights to facilitate informed evacuation strategies and minimize disruptions.

Regional Insights

North America dominates in the global Active Fire Protection System market in 2022 because in North America, fire safety is a paramount concern across diverse sectors, including commercial, industrial, residential, and government establishments. The region's emphasis on early detection, rapid response, and effective suppression aligns with its meticulous safety-conscious culture. This commitment extends to embracing technological advancements, such as smart fire protection systems and data-driven analytics, which enhance situational awareness and facilitate swift decision-making during fire incidents.

Key Market Players

Honeywell International Inc

Tyco Fire Products LP (Johnson Controls)

Siemens AG

Robert Bosch GmbH

United Technologies Corporation (UTC)

Johnson Controls International plc

Minimax Viking Group

Gentex Corporation

Fike Corporation

Halma plc

Report Scope:

In this report, the Global Active Fire Protection System Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Global Active Fire Protection System Market, By Product:

Fire Suppression

Fire Detection

Fire Sprinkler

Fire Analysis

Fire Response

Global Active Fire Protection System Market, By Services:

Engineering

Installation & Design

Managed

Maintenance

Global Active Fire Protection System Market, By End User:

Commercial

Industrial

Government

Residential

Others

Global Active Fire Protection System Market, By Region:

North America

Europe

South America

Asia-Pacific

Middle East & Africa

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Active Fire Protection System Market.

Available Customizations:

Global Active Fire Protection System Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Baseline Methodology
- 2.2. Key Industry Partners
- 2.3. Major Association and Secondary Sources
- 2.4. Forecasting Methodology
- 2.5. Data Triangulation & Validation
- 2.6. Assumptions and Limitations

3. EXECUTIVE SUMMARY

4. IMPACT OF COVID-19 ON GLOBAL ACTIVE FIRE PROTECTION SYSTEM MARKET

5. VOICE OF CUSTOMER

6. GLOBAL ACTIVE FIRE PROTECTION SYSTEM MARKET OVERVIEW

7. GLOBAL ACTIVE FIRE PROTECTION SYSTEM MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Product (Fire Suppression, Fire Detection, Fire Sprinkler, Fire Analysis, Fire Response)
 - 7.2.2. By Services (Engineering, Installation & Design, Managed, Maintenance)
 - 7.2.3. By End User (Commercial, Industrial, Government, Residential, Others)
 - 7.2.4. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)

7.3. By Company (2022)

7.4. Market Map

8. NORTH AMERICA GLOBAL ACTIVE FIRE PROTECTION SYSTEM MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Product

8.2.2. By Services

8.2.3. By End User

8.2.4. By Country

8.2.4.1. United States Active Fire Protection System Market Outlook

8.2.4.1.1. Market Size & Forecast

8.2.4.1.1.1. By Value

8.2.4.1.2. Market Share & Forecast

8.2.4.1.2.1. By Product

8.2.4.1.2.2. By Services

8.2.4.1.2.3. By End User

8.2.4.2. Canada Active Fire Protection System Market Outlook

8.2.4.2.1. Market Size & Forecast

8.2.4.2.1.1. By Value

8.2.4.2.2. Market Share & Forecast

8.2.4.2.2.1. By Product

8.2.4.2.2.2. By Services

8.2.4.2.2.3. By End User

8.2.4.3. Mexico Active Fire Protection System Market Outlook

8.2.4.3.1. Market Size & Forecast

8.2.4.3.1.1. By Value

8.2.4.3.2. Market Share & Forecast

8.2.4.3.2.1. By Product

8.2.4.3.2.2. By Services

8.2.4.3.2.3. By End User

9. EUROPE ACTIVE FIRE PROTECTION SYSTEM MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Product

9.2.2. By Services

9.2.3. By End User

9.2.4. By Country

9.2.4.1. Germany Active Fire Protection System Market Outlook

9.2.4.1.1. Market Size & Forecast

9.2.4.1.1.1. By Value

9.2.4.1.2. Market Share & Forecast

9.2.4.1.2.1. By Product

9.2.4.1.2.2. By Services

9.2.4.1.2.3. By End User

9.2.4.2. France Active Fire Protection System Market Outlook

9.2.4.2.1. Market Size & Forecast

9.2.4.2.1.1. By Value

9.2.4.2.2. Market Share & Forecast

9.2.4.2.2.1. By Product

9.2.4.2.2.2. By Services

9.2.4.2.2.3. By End User

9.2.4.3. United Kingdom Active Fire Protection System Market Outlook

9.2.4.3.1. Market Size & Forecast

9.2.4.3.1.1. By Value

9.2.4.3.2. Market Share & Forecast

9.2.4.3.2.1. By Product

9.2.4.3.2.2. By Services

9.2.4.3.2.3. By End User

9.2.4.4. Italy Active Fire Protection System Market Outlook

9.2.4.4.1. Market Size & Forecast

9.2.4.4.1.1. By Value

9.2.4.4.2. Market Share & Forecast

9.2.4.4.2.1. By Product

9.2.4.4.2.2. By Services

9.2.4.4.2.3. By End User

9.2.4.5. Spain Active Fire Protection System Market Outlook

9.2.4.5.1. Market Size & Forecast

9.2.4.5.1.1. By Value

9.2.4.5.2. Market Share & Forecast

9.2.4.5.2.1. By Product

9.2.4.5.2.2. By Services

9.2.4.5.2.3. By End User

10. SOUTH AMERICA ACTIVE FIRE PROTECTION SYSTEM MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Product

10.2.2. By Services

10.2.3. By End User

10.2.4. By Country

10.2.4.1. Brazil Active Fire Protection System Market Outlook

10.2.4.1.1. Market Size & Forecast

10.2.4.1.1.1. By Value

10.2.4.1.2. Market Share & Forecast

10.2.4.1.2.1. By Product

10.2.4.1.2.2. By Services

10.2.4.1.2.3. By End User

10.2.4.2. Colombia Active Fire Protection System Market Outlook

10.2.4.2.1. Market Size & Forecast

10.2.4.2.1.1. By Value

10.2.4.2.2. Market Share & Forecast

10.2.4.2.2.1. By Product

10.2.4.2.2.2. By Services

10.2.4.2.2.3. By End User

10.2.4.3. Argentina Active Fire Protection System Market Outlook

10.2.4.3.1. Market Size & Forecast

10.2.4.3.1.1. By Value

10.2.4.3.2. Market Share & Forecast

10.2.4.3.2.1. By Product

10.2.4.3.2.2. By Services

10.2.4.3.2.3. By End User

11. MIDDLE EAST & AFRICA ACTIVE FIRE PROTECTION SYSTEM MARKET OUTLOOK

11.1. Market Size & Forecast

11.1.1. By Value

11.2. Market Share & Forecast

- 11.2.1. By Product
- 11.2.2. By Services
- 11.2.3. By End User
- 11.2.4. By Country
 - 11.2.4.1. Saudi Arabia Active Fire Protection System Market Outlook
 - 11.2.4.1.1. Market Size & Forecast
 - 11.2.4.1.1.1. By Value
 - 11.2.4.1.2. Market Share & Forecast
 - 11.2.4.1.2.1. By Product
 - 11.2.4.1.2.2. By Services
 - 11.2.4.1.2.3. By End User
 - 11.2.4.2. UAE Active Fire Protection System Market Outlook
 - 11.2.4.2.1. Market Size & Forecast
 - 11.2.4.2.1.1. By Value
 - 11.2.4.2.2. Market Share & Forecast
 - 11.2.4.2.2.1. By Product
 - 11.2.4.2.2.2. By Services
 - 11.2.4.2.2.3. By End User
 - 11.2.4.3. South Africa Active Fire Protection System Market Outlook
 - 11.2.4.3.1. Market Size & Forecast
 - 11.2.4.3.1.1. By Value
 - 11.2.4.3.2. Market Share & Forecast
 - 11.2.4.3.2.1. By Product
 - 11.2.4.3.2.2. By Services
 - 11.2.4.3.2.3. By End User

12. ASIA PACIFIC ACTIVE FIRE PROTECTION SYSTEM MARKET OUTLOOK

- 12.1. Market Size & Forecast
 - 12.1.1. By Value
- 12.2. Market Size & Forecast
 - 12.2.1. By Product
 - 12.2.2. By Services
 - 12.2.3. By End User
 - 12.2.4. By Country
 - 12.2.4.1. China Active Fire Protection System Market Outlook
 - 12.2.4.1.1. Market Size & Forecast
 - 12.2.4.1.1.1. By Value
 - 12.2.4.1.2. Market Share & Forecast

- 12.2.4.1.2.1. By Product
- 12.2.4.1.2.2. By Services
- 12.2.4.1.2.3. By End User
- 12.2.4.2. India Active Fire Protection System Market Outlook
 - 12.2.4.2.1. Market Size & Forecast
 - 12.2.4.2.1.1. By Value
 - 12.2.4.2.2. Market Share & Forecast
 - 12.2.4.2.2.1. By Product
 - 12.2.4.2.2.2. By Services
 - 12.2.4.2.2.3. By End User
- 12.2.4.3. Japan Active Fire Protection System Market Outlook
 - 12.2.4.3.1. Market Size & Forecast
 - 12.2.4.3.1.1. By Value
 - 12.2.4.3.2. Market Share & Forecast
 - 12.2.4.3.2.1. By Product
 - 12.2.4.3.2.2. By Services
 - 12.2.4.3.2.3. By End User
- 12.2.4.4. South Korea Active Fire Protection System Market Outlook
 - 12.2.4.4.1. Market Size & Forecast
 - 12.2.4.4.1.1. By Value
 - 12.2.4.4.2. Market Share & Forecast
 - 12.2.4.4.2.1. By Product
 - 12.2.4.4.2.2. By Services
 - 12.2.4.4.2.3. By End User
- 12.2.4.5. Australia Active Fire Protection System Market Outlook
 - 12.2.4.5.1. Market Size & Forecast
 - 12.2.4.5.1.1. By Value
 - 12.2.4.5.2. Market Share & Forecast
 - 12.2.4.5.2.1. By Product
 - 12.2.4.5.2.2. By Services
 - 12.2.4.5.2.3. By End User

13. MARKET DYNAMICS

- 13.1. Drivers
- 13.2. Challenges

14. MARKET TRENDS AND DEVELOPMENTS

15. COMPANY PROFILES

15.1. Honeywell International Inc

- 15.1.1. Business Overview
- 15.1.2. Key Revenue and Financials
- 15.1.3. Recent Developments
- 15.1.4. Key Personnel
- 15.1.5. Key Product/Services Offered

15.2. Tyco Fire Products LP (Johnson Controls)

- 15.2.1. Business Overview
- 15.2.2. Key Revenue and Financials
- 15.2.3. Recent Developments
- 15.2.4. Key Personnel
- 15.2.5. Key Product/Services Offered

15.3. Siemens AG

- 15.3.1. Business Overview
- 15.3.2. Key Revenue and Financials
- 15.3.3. Recent Developments
- 15.3.4. Key Personnel
- 15.3.5. Key Product/Services Offered

15.4. Robert Bosch GmbH

- 15.4.1. Business Overview
- 15.4.2. Key Revenue and Financials
- 15.4.3. Recent Developments
- 15.4.4. Key Personnel
- 15.4.5. Key Product/Services Offered

15.5. United Technologies Corporation (UTC)

- 15.5.1. Business Overview
- 15.5.2. Key Revenue and Financials
- 15.5.3. Recent Developments
- 15.5.4. Key Personnel
- 15.5.5. Key Product/Services Offered

15.6. Johnson Controls International plc

- 15.6.1. Business Overview
- 15.6.2. Key Revenue and Financials
- 15.6.3. Recent Developments
- 15.6.4. Key Personnel
- 15.6.5. Key Product/Services Offered

15.7. Minimax Viking Group

- 15.7.1. Business Overview
- 15.7.2. Key Revenue and Financials
- 15.7.3. Recent Developments
- 15.7.4. Key Personnel
- 15.7.5. Key Product/Services Offered
- 15.8. Gentex Corporation
 - 15.8.1. Business Overview
 - 15.8.2. Key Revenue and Financials
 - 15.8.3. Recent Developments
 - 15.8.4. Key Personnel
 - 15.8.5. Key Product/Services Offered
- 15.9. Fike Corporation
 - 15.9.1. Business Overview
 - 15.9.2. Key Revenue and Financials
 - 15.9.3. Recent Developments
 - 15.9.4. Key Personnel
 - 15.9.5. Key Product/Services Offered
- 15.10. Halma plc
 - 15.10.1. Business Overview
 - 15.10.2. Key Revenue and Financials
 - 15.10.3. Recent Developments
 - 15.10.4. Key Personnel
 - 15.10.5. Key Product/Services Offered

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

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