



**Ingenious Ideas for Fire Safety**

# **FORMULA**

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**...Fire Protection**



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## Company Profile



Why  
Choose  
Us

Trust  
the  
Professionals



### Trust the Professionals...

At FORMULA, we are committed in helping large and small companies to meet the compliance requirements of the Legislation and Regulations concerning Fire Protection.

We offer complete Fire Protection solutions, as we have a deep understanding of the changing requirements, and decades of specialized experience in the industry. We work with our clients, guiding and advising them appropriately, so that they fully comply with the requirements.

Our customers can also benefit by assigning the Fire Protection of their premises to professionals with National presence and knowledge of the Legislation.

Whether you want active & passive fire protection systems or fire extinguishers, we offer products, installation, training and fire safety services, from hospitals and factories to retail stores.



**Our commitment to quality and the observance of the Regulations and the Legislation, is what leads us forward.**



Who we are



## Who we are

In many cases the protection of the property and the life of a person was rescued as a result of our work. And we must make sure that this work is done in the best possible way.

Our company policy is summarized in one phrase:

**“Trust The Professionals”**

FORMULA Fire Extinguishers SA is currently considered one of the few companies that have the required experience and knowledge in Fire Protection.

The use of different and innovative fire detection systems, based on pneumatic thermal sensor tube and having infinite - practical - applications (i-SAFE systems), is an innovation that changed the Market.

The introduction and distribution in the Greek Market of the high performance ecological fire-fighting foam and the cleaning and decontamination materials of BIOVERSAL® Int'l, leads the company to new paths, with the best weapon in the world market.

Our cooperation with major companies, including AWG Germany in firefighting equipment, OSW (Germany) in fire hoses, SIEMENS in fire detection, fire extinguishing systems and state-of-the-art access control systems, show the dynamics of the company.



At FORMULA Fire Extinguishers SA we are ready to face tomorrow with the optimism that comes from our knowledge and our love for the subject. And we promise that the relationship with our customers, existing and new, will be governed by the honesty that characterizes us, knowing that we will do everything for the best possible result.

Thank you for your trust and we continue ...



# FORMULA

TOTAL FIRE PROTECTION

since 1971

## History

FORMULA Fire Extinguishers SA is a construction company with exclusive activity in Fire Protection and at the same time a Certified Center for Low & High Pressure Re-inspection. It was founded in 1971 by Georgios Angelikakis, Charalambos Karras and Stavros Pappas and came to fill the gap between the Greek and European Industry in the field of Fire Protection, which until then was in Greece at the stage of handicrafts.



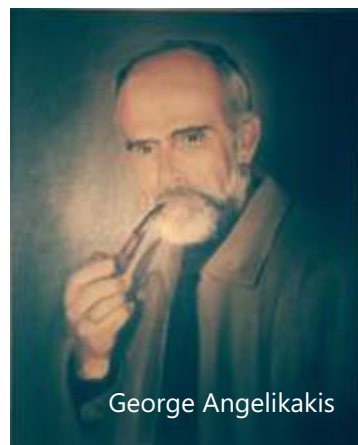
The continuous training of its executives and technicians, but also its very close relationship with international manufacturing companies of Firefighting Equipment, ensures the provision of services and equipment of the latest technology and high quality. Over the years and the know-how acquired, the company gave all its weight in specific areas:

- Provision of Maintenance Services of any kind of firefighting equipment
- Design, Supply & Installation of Permanent Firefighting Systems
- Research & Development of new firefighting systems
- Engineering Services for the provision of Consulting Services

The Founders of the company, tried and managed to pass on the message that we must love what we do. And since we will love it, we will do it in the best possible way. So, FORMULA Fire Extinguishers SA invested in human and mechanical equipment, in order to realize the vision of its Founders and proceeded to:

Purchase of high value mechanical equipment required for the inspection process in fire extinguishers, Gas cylinders, Fire Detection Systems, Fire Extinguishing Systems, etc.

- Certification of works with the extension of the Quality Management System ISO 9001 in the field of Firefighting Systems.
- Training of technicians for conducting high fidelity inspections and installations
- Integration of Engineers with extensive experience in the Company's Human Resources
- Development of new firefighting systems with a wide field of application, pioneering for the Greek & International Market.



George Angelikakis

## Projects

FORMULA Fire Extinguishers SA undertakes and installs integrated fire protection systems in a wide range of companies, from industrial, commercial companies, hotel facilities, to residential complexes throughout Greece and abroad.

Whether it is a new project or a new demand to upgrade existing infrastructure, we can cope and complete it successfully.

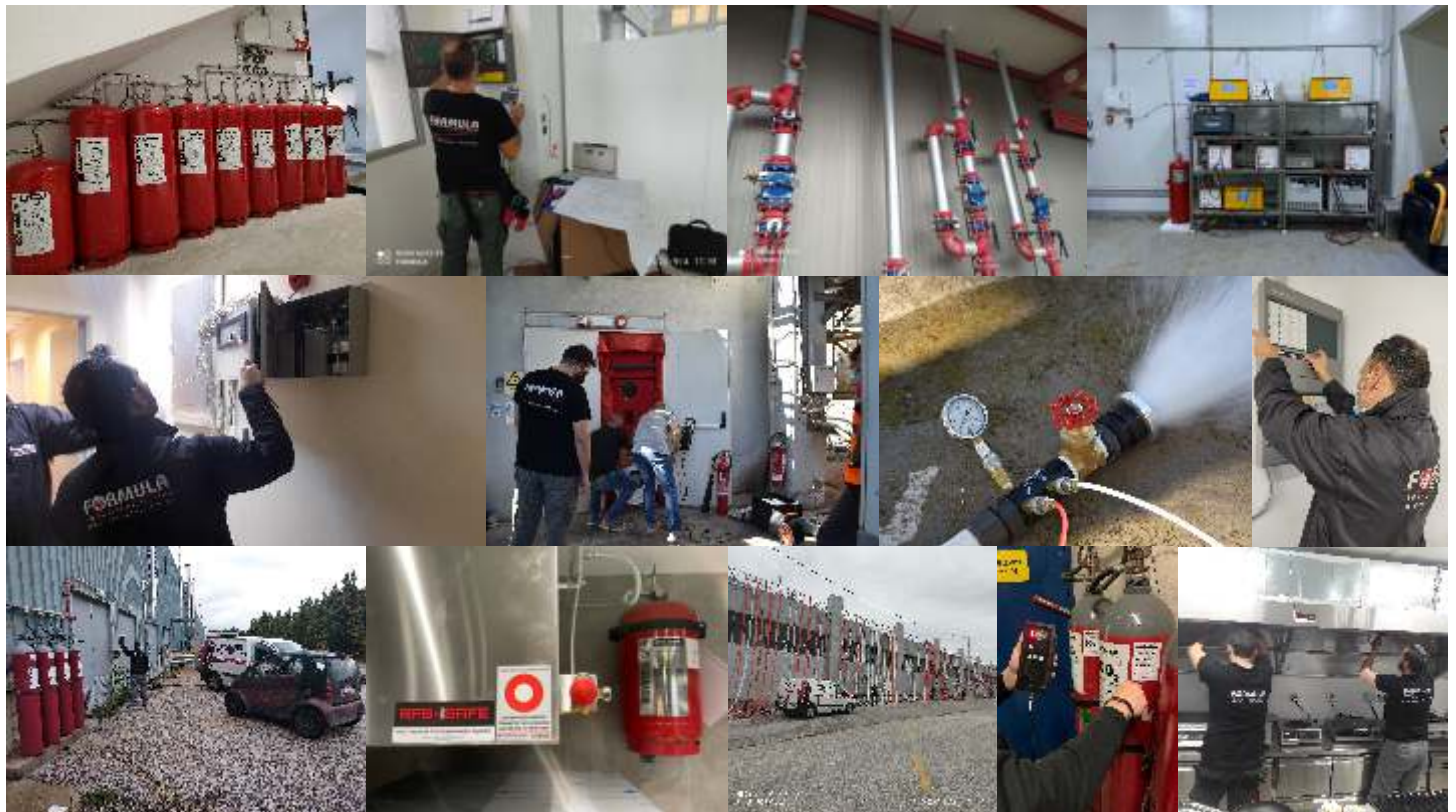
### Piece of Mind ...

When it comes to installing fire safety systems in active businesses, our goal is to ensure that your business will be able to continue to operate smoothly during installations.

Professionalism, consistency and adherence to construction and safety rules, are the basic characteristics that govern us, from the beginning to the completion and delivery in full operation of each project we undertake.

### Collaboration for the Result

FORMULA Fire Extinguishers SA has the ability to install a wide variety of fire protection systems of high technical & quality standards. The Consulting Engineers and the project managers of our company work closely with the client, for the correct (technically and financially) selection of the appropriate system. Our goal is to help you choose the system that best suits your needs, listing the pros and cons of each system, its costs and even testing if possible.







## Facility Maintenance

**FORMULA** Fire Extinguishers SA provides inspection, maintenance and repair work for all types of existing fire protection systems, including portable fire extinguishers

### Dangers

Through our many years of experience, we have found that many installations have significant deficiencies in Fire Safety (Passive and / or Active) or apply outdated technical solutions, as a result of which they are exposed both in case of accident and to any controls by supervisors Fire Service, Insurance companies etc).

Exposure to one of the above risks, is able to negatively affect the financial size of the company (loss of human life, imposition of fines, non-compensation, suspension of work due to material damage, etc.).

### Why FORMULA?

Our expert Engineers and specialized Technicians thoroughly examine the systems and means of fire protection of your installation, to ensure their effectiveness, as well as their compliance with the applicable Greek (and if required International) Legislation. After each autopsy, a technical report on the condition of the existing equipment follows, and proposals for their restoration, improvement and upgrade are submitted.



It is very important that the security officer and the relevant technical staff are aware of the potential of fire protection equipment, as well as the potential risks to which they may be led by an erroneous assessment.

As a leading fire protection company, we know that fire safety and consequently the protection of life and property, are of paramount importance and we guarantee that we will offer you reliable services and solutions.

The continuous Information Seminars, the know-how we have, in combination with the many years of experience in firefighting facilities, has as a result the provision of a high level of facility maintenance service and the saving of significant financial resources. We offer the assurance to our customer that all the fire protection means of the installation will be 100% functional and reliable in case of emergency.



# Firefighting Systems

## i-SAFE Firefighting Systems

We make the firefighting process easy (thanks to the smart detection hose) Complex requirements do not necessarily mean complex systems. Inspired and guided by this principle, i-SAFE systems have been created with the aim of reducing the functional components to the absolute basics and therefore providing maximum performance and absolute operational reliability.



## CO<sub>2</sub> systems

FORMULA CO<sub>2</sub> systems use the F202 series valves of FiWaRec, a company with great expertise in the design and manufacture of valves for firefighting purposes. The difference lies in the details.

We do not always have to rediscover the wheel, but we can certainly improve it. In fact, we should do it when it comes to an extremely sensitive issue such as firefighting.



## Ig541/ INERGEN systems

We do not always have to rediscover the wheel, but we can certainly improve it. To be precise, we should do so when it comes to an extremely sensitive issue such as firefighting. For this reason, it is really worth taking a look at FiWaRec technology. This technology is characterized by the fact that it is focused (in every way) on optimization.



## RFS-iSAFE Kitchen Fire Protection System

It is designed for automatic and manual operation and has extinguishing material suitable for fires category "F" (burnt oils and fats), category "A" (solid fuels) & category "B" (liquid fuels).

It is fully autonomous and its operation does not depend on electricity supply.

It is capable of extinguishing fires in areas related to the ventilation system, such as the ducts, the space above the filters (plenum), as well as in auxiliary devices for collecting oils.

It is also capable of extinguishing fire in cooking appliances, such as fryers, grills, grills, round appliances, hobs, pans, etc.

It is "pre-engineered" type, ie the minimum and maximum efficiency has already been calculated by the system manufacturer.

Meets the requirements of Directive 2014/68 / EU CE (97/23 / EC) on Pressure Equipment and is necessarily accompanied by the relevant Declaration of Conformity.

It is installed and checked by a technician trained and certified by the manufacturer.



# Extinguishing and suppression

## SIEMENS Sinorix 1230

Solution  
Partner

Building  
Technologies

SIEMENS

Sinorix 1230	
	Novec 1230
	10 (s)
	42 (bar)
	30 - 50 (m²)
	GWP = 1 ALT = 5d
	10% Gas
	>10% Gas
	EN

### Automated extinguishing system based on clean agent Novec 1230 fluid

Sinorix 1230 is the latest generation of our chemical extinguishing systems, offering a range of unique features and benefits. It is an excellent solution for the protection of high-value assets, business processes and people. It is based on the sustainable extinguishing agent 3M™ Novec™ 1230 Fire Protection Fluid. The high-pressure technology allows highest design flexibility. Enabling rapid, safe and automated interventions, Sinorix 1230 can prevent loss of data and secure business continuity.

### Fast, safe and environmentally friendly extinguishing

Sinorix 1230 is an effective and clean extinguishing solution that is ideally suited to extinguish smoldering fires. It neither causes damage to nor leaves any residue on sensitive equipment. This makes it the perfect choice for eliminating electrical and electronic risks.

### Fast and safe system technology

The high efficiency of the Sinorix 1230 system allows using a low extinguishing concentration. Novec 1230 fluid even offers the lowest extinguishing concentration of all currently authorized extinguishing agents. This enables compact system designs and requires less space for installation and cylinder storage. The high efficiency of the Sinorix 1230 system allows using a low extinguishing concentration. Sinorix 1230 with Novec 1230 fluid follows EN standards and guidelines and is backed by appropriate certifications such as VdS, CNPP, and others. Additionally, the minimum 10 bar at the nozzle concept used by Siemens ensures fast and full evaporation of the Novec 1230 fluid, minimizing extinguishing times.

### Typical applications



IT and server rooms



UPS systems



Control rooms,  
technical rooms



Electrical switching  
rooms



Li-ion storage  
systems



Cable ducts



Telecommunication  
systems



Closed transformers,  
generators



Archives,  
storage vaults



## Access Control

### **SIEMENS** SiPass integrated: freedom of movement in a secure environment

Solution  
Partner

Building  
Technologies

**SIEMENS**

#### **SiPass integrated: freedom of movement in a secure environment**

SiPass® integrated is a powerful and extremely flexible access control system that provides a very high level of security without compromising convenience and ease of access for system users. It is also possible to use SiPass integrated as a security management station (SMS) that integrates access control, intrusion detection and video surveillance into a single system.

Designed to fit into a state-of-the-art IT environment, the modular structure and scalability of SiPass integrated make it easy to adjust to keep pace with the changing needs of any organization.

As a result, thousands of corporations, airports, ports, government agencies, hospitals and universities, and other organizations in all parts of the world have chosen to rely on SiPass integrated access control systems.



#### **Core features**

SiPass integrated includes all the access control features you would expect – such as DESfire encoding, support for fingerprint reading, support for GSM modems, time scheduling, manual system override, dynamic graphical status screen, instructional alarm response windows and a full system archiving and restoration function – as well as many more advanced ones. The following features are the ones that customers tend to find the most interesting.



##### Interactive reporting

The SiPass integrated Explorer ensures fast identification and evaluation of system events. The software includes a visual online reporting tool, database information reporting, audit-trail information reporting, the ability to run simultaneous reports, advanced filtering options, advanced search criteria, and tree view for simplified use. The system offers point-and-click report availability, a highly configurable information structure, and targeted sorting of information. It is also possible to define watch lists in the system to flag people who might pose a security risk.

##### Comprehensive audit-trail logging

SiPass integrated offers system operators the opportunity to create multiple audit trail windows to filter events. The audit trail logging also ensures that all database changes are logged in full detail. The exact changes are both logged and displayed on screen, including a record of the operator who made them. This functionality makes SiPass integrated very well suited for market segments in which there are strict requirements for traceability. SiPass integrated versions since MP2.4 can be used to build access control systems that are compliant with 21 CFR Part 11.

##### Advanced alarm management

SiPass integrated's standardized alarm management system enables the configuration of up to 1,000 alarm priority levels. To facilitate faster handling, the alarms are displayed and highlighted graphically according to priority. It also offers customizable alarm instructions that support security personnel.

##### Anti-passback and roll call

The purpose of anti-passback is to prevent the same card from being used to gain access twice. Entries to and exits from an anti-passback area must match, otherwise subsequent entries or exits can be denied. Anti-passback also enables roll call, which ensures the accuracy of counts of how many, and which, employees are in which rooms at a particular point in time, information that may be crucial in the case of an emergency. SiPass integrated also includes a workgroup anti-passback feature, which means that once an anti-passback area is set up, it is also possible to control how many individuals from a particular workgroup are allowed in that area at one time. This can be done while at the same time maintaining overall area limits.

# Fire Protection System

**SIEMENS** Cerberus FIT  
Smart can be simple

Solution  
Partner  
  
Building  
Technologies

**SIEMENS**

## The ideal fire safety solution for small to medium-sized buildings

A highly reliable fire protection system is essential when it comes to ensuring that people are safe. Especially in smaller buildings like primary schools or nursing homes, where there are children and elderly people who rely on our support. Cerberus FIT is part of an integrated approach to fire safety, because every element of protection matters from detection to alarming and evacuation.

This smart and yet simple system has been designed to maximize the fire safety of small to medium-sized buildings, ensuring the safety of their occupants. In addition, Cerberus FIT enhances the productivity of everyone involved from the technician who takes care of the installation and maintenance to the facility staff. Indeed, equipped with a user-friendly interface, Cerberus FIT is easy to use by maintenance staff as well as facility personnel who can monitor and perform simple operational tasks themselves.



## Your Benefits at a glance

### Maximized fire safety & reliability

The early and most reliable detection ensures the highest safety standards. Orderly and fast evacuation is secured thanks to clear voice messages with a wide range of languages to choose from which is particularly convenient in hotels with international clientele.



In schools and nursing homes

### Optimized operation and maintenance tasks

The auto configuration and license free tool allows for easy commissioning and installation as well as maintenance with intuitive operations. No extensive training is therefore required.



In factories

### Ensured business continuity

By saving effort and operational costs, maintenance staff can focus on what really matters and maximize the safety as the continuity of your business. In addition, the ASA detectors provide immunity to deceptive phenomena (no false alarm), avoiding unnecessary business disturbances.



In shops



In hotels and homes



# Fire Protection System

## SIEMENS Cerberus PRO - fire protection System

Protecting what matters

Solution  
Partner

Building  
Technologies

SIEMENS

When it comes to protecting the things that matter, it matters how you protect them. For fire protection, Cerberus™ provides the answer in a single integrated solution that takes care of every element of protection. It integrates a comprehensive portfolio, application know-how and expert consulting services to ensure an optimal fire safety solution.

A perfect place needs to be a protected place. From safeguarding employees and the business, fully utilizing the building, maximizing operational efficiency, ensuring system integrity, to fulfilling legal requirements to comply with standards and regulations, a wide range of needs must be fulfilled.

Protection gives you certainty. Protecting you from fire and much more. Because when you feel protected you can concentrate on your task, be creative, be productive and successful. Knowing that lives, assets, and business continuity are taken care of should a fire incident occur.

For all the elements of fire protection, Cerberus has it covered. With a comprehensive portfolio of products, systems, and life-cycle services, Cerberus protects what is essential to you. Because only a protected place is a perfect place.



### Cerberus covers every element of fire protection in one integrated solution.

#### Detection – the quicker you know about the fire, the quicker you can fight the fire.

At the first sign of a fire hazard, the system detects it reliably and initiates further steps. The detection technology is available for a wide range of applications and distinguishes between real and deceptive phenomena. We help you go beyond regulatory requirements while making sure unnecessary interruptions in the building are avoided.

#### Alarming & Evacuation – protecting your people from fire means getting them away from the fire.

Addressing two senses with both acoustic and visual alarms ensures everyone takes notice. When the alarm does sound, our solutions help evacuate people to a place of safety in a quick and orderly manner along safe, smoke-free routes.

#### Sinorix – Intelligent Extinguishing – extinguish the fire to protect people and places.

In case of a fire, seconds count – but it is not only essential to react quickly and efficiently, but also that any damage to costly and sensitive equipment can be kept to a minimum. For that, it is essential to have a reliable solution tailored to individual requirements. Our advanced extinguishing portfolio comprises systems with natural or chemical extinguishing agents as well as gas/water-combined systems.

#### Danger Management – managing your building means managing your building's fire protection.

We help you keep your building's fire protection systems monitored and operated from a single point of control. Our danger management system addresses your specific needs while accommodating future expansions. The solution is based on an open platform for smooth integration – with a modular structure that provides both flexibility and scalability.

#### Cloud – the best way to monitor multiple places at the same time is with data.

Connecting Cerberus fire protection systems to the cloud means you gain great visibility on multiple buildings from any location. Incidents are instantly communicated and a more proactive protection is ensured. The resulting higher responsiveness increases safety and enhances operational efficiency.

#### Services – fire is perhaps the oldest threat there is. That's why it always requires newer ways to fight it.

The integrity of the fire protection system needs to be ensured at all times. A whole suite of services ensure it is well maintained over the entire life-cycle. We provide tailored solutions for modernizing and expanding your system to fulfill today's standards and those of the future.

## Fire Alarm Systems

# Teletek

electronics



### To create a safer world!

Teletek Electronics design, create, implement, optimize and maintain technologies that protect people's lives and safety.

Teletek Electronics strives to be a leading security and fire alarm company in every country in which it operates and achieve sustainable and quality growth with a clear understanding of the responsibilities it carries to its employees, customers, partners and surrounding community.

### The Mission

Protect and protect people through safe, high-tech, innovative life-saving products and security alarm systems.

Teletek Electronics is aware of the major global trends and challenges and strive to constantly evolve through increasingly innovative, high-tech and quality products.

**NEW**



## iRIS8

**Unlimited and Powerful  
Intelligent Fire Alarm Panels**





## Gas Detection



### GAS DETECTION

DURAN ELECTRONICA is a company with more than 30 years' experience, specializing in the design and manufacture of detection systems for carbon monoxide and other toxic and explosive gases.

DURAN ELECTRONICA offer the most suitable solutions in electronic gas detection using electrochemical, catalytic and infrared technology for industrial installations as well as for any type of civil edification or construction.

DURAN ELECTRONICA products protect thousands of underground car parks throughout the world, factories, wine cellars, agriculture and food companies, water-treatment plants, laboratories, utility tunnels and, especially, tunnels, having become one of the most specialized companies in the world for the global supply of gas detection systems and environmental control for this specific kind of construction.

DURAN ELECTRONICA drives to innovate, commitment with its clients and the experience of its technical department put it in a privileged position of leadership in the market.

Specialized for the global supply of gas detection systems



**DURPARK**  
CO & NO<sub>2</sub> DETECTION  
*the result of experience*

The advertisement features a large, white, multi-bay gas detection unit on the left. The background is a collage of images related to gas detection, including a tunnel, a car, and a parking garage. The text 'DURPARK' is prominently displayed in a large, bold font, with 'CO & NO<sub>2</sub> DETECTION' and 'the result of experience' below it.



There's a fire in the tunnel! There's something on fire! The forest is on fire! An overturned lorry is losing fuel and hydraulic fluid! A tanker has sprung a leak after running aground or a collision! Help quickly! Then there's danger ahead, any specialist knows what to do: act quickly and save people first.

At this point no thought is usually given to the consequent damage to the environment which may occur. Fire-extinguishing agents which at first seem favourable can impede Nature's natural self-cleaning power. The subsequent clean-up and repair work to the environment thus required costs a disproportionate amount of money and would very frequently be avoidable by using BIOVERSAL products since BIOVERSAL products contain special substances for fighting fires and oil pollution which are harmless to the environment.

These outstanding BIOVERSAL products are based on highly degradable surfactants. These stimulate the micro-organisms to multiply substantially and thus bring about a rapid biological degradation process. Immediately during its application – to protect the environment – provisions are set which will quickly reproduce a natural equilibrium.

BIOVERSAL products have been developed by professionals for professionals.



## Extra Value Firefighting

BIOVERSAL® QF / QF-r is an internationally certified fire extinguishing product, suitable for extinguishing class A, B & F fires, with the added value of environmental friendliness.

Its extremely good cooling property protects human lives, stabilizes buildings and helps suppress the growth of smoke. It also prevents the formation of sparks.

BIOVERSAL® QF / QF-r:

Helps reduce the negative ecological effects after use by the Fire Department.

Facilitates the biological degradation of oils and greases, which means maximum protection for the environment.

Immediately prevents the risk of slipping due to oil residues or grease.

It has a neutral pH, does not promote corrosion

Dermatologically safe

International licenses: DIN 14272-2 /

UL-162 EN 1568-3 / GOST

ICAO level C



## Environmentally Friendly Protection

BIOVERSAL® QF / QF-r protects the habitat of plants, animals and micro-organisms as it significantly reduces or even prevents damage caused by pollutants and therefore maintains water quality. The natural water balance and the biological plants are not adversely affected by BIOVERSAL® QF / QF-r.

BIOVERSAL® products help nature cleanse itself after fire and oil spills.

BIOVERSAL® QF / QF-r is particularly suitable and safe for the environment, even for preventive use, e.g. to avoid the risk of fire or explosion during operation at high temperatures (foam mat to protect the environment).





## Fire Extinguishers

We want to make sure you have the best equipment to deal with a fire at its onset. For this reason, we design, manufacture & trade fire extinguishers, based on the non-negotiable quality of construction.

### CHECK & MAINTENANCE

It does not matter how many fire extinguishers you have on your premises. If they are not high quality and do not provide any reliability, they will be useless when you really need them.

This is the reason why the companies in Greece are obliged by the current Legislation, to regularly control and maintain the fire extinguishers.

So choosing a really reliable Partner is of utmost importance.

FORMULA Fire Extinguishers SA has a number of certificates and meets the highest requirements of industry standards, in all aspects of the business.

From the specialized Maintenance Technicians who use the latest technology machines to the fully trained Management staff, everything works for the benefit of our Partners.

So, when you choose FORMULA Fire Extinguishers SA for the Control & Maintenance of fire extinguishers, you know that you can trust the experts.

### CONTROL & MAINTENANCE AT LOCAL & PANHELLENIC SCALE

We provide our services strictly in accordance with the Greek Legislation (KYA 618/47 & KYA 17230/671). All our technicians, but also our strictly selected Partners throughout the country, are certified by the Competent Body, knowledgeable about the subject and excellently trained. Our technicians also provide guidance and advice on various aspects of fire safety, in addition to the maintenance of fire extinguishers. We want to be sure of the safety of our customers and that is why we place great emphasis on educating our own people.



# Flood Protection

## FloodSax Flood Protection

It is light as a pillow, but when it comes in contact with water, the FloodSax becomes in seconds, firm and heavy like a sandbag....

- Inexpensive, simple, lightweight and fast
- For temperatures from -10 °C to + 50 °C
- Suitable for the construction of dams
- Absorbs certain oils and chemicals
- Once activated, FloodSax lasts up to three months in contact with liquid
- Easy disposal



**FloodSax is a flood protection system, which is self-activated by the absorption of water.**

Compared to the conventional sandbag, FloodSax® combines the tried and tested purposes, such as the construction of flood walls and the protection of buildings and plants, with additional, enormous absorption. This means that FloodSax® can also be used internally for protection against water damage caused by leaks and spills.

The inside of the FloodSax® consists of a specially developed, water-absorbing polymer. As soon as a FloodSax® comes into contact with water, it is activated and within a few minutes it absorbs 20-25 litres of water.

**Weighing only 700 g when dry, a FloodSax® is more than an alternative to the sandbag.** Thousands of FloodSax® can be transported quickly to where they are needed, and are ready for use immediately!

Whether fire service, civil protection & emergency services, business or private household – with FloodSax® you protect houses and property against expensive water damage, quickly and efficiently.

FloodSax® are suitable, for example, for **diverting floodwater** or fire-fighting water in case of fire service deployment.

FloodSax are used as a **water barrier** in passageways to protect electrical systems, machines, rooms and buildings. This prevents water from overflowing onto larger areas.

**The absorption and enclosure of water** with FloodSax® takes only a few minutes. This means that damage caused by leaking water, e.g. from sprinklers or in bathroom areas, is reduced and leaks can be contained.

If FloodSax® have absorbed non-contaminated water they can be cut open and the biodegradable internal polymer can be spread onto the soil and it will break down and biodegrade. The outer case can then be disposed of in the normal household and commercial waste.\*

\* If they become contaminated with hazardous substances such as petrol or oil, FloodSax® must be disposed of as hazardous waste.



Weight when dry	approx. 0,7 kg
Weight when wet	approx. 2025 kg
Water absorption	approx. 2025 l
Dimensions dry	approx. 500 / 450 / 20 mm(L x W x H)
Dimensions active	approx. 500 / 450 / 100 mm(L x W x H)
Packing unit	1 box of 20
AWG ID-No.	620 366 59





## AWG Fire Fighting Fittings

### Reliability is everything

Firefighters need equipment that feels as if it were literally customized for their own hands. Here at AWG, this principle has been our number one priority for over a hundred years. It is the key to saving vital seconds in an emergency, to using resources effectively and thus saving more lives.

At the factory in Ballendorf, AWG develops and manufactures firefighting fittings and equipment that comply with all international standards under the brand name AWG, firefighting monitors under the brand name Alco and hydraulic rescue tools under the brand name LANCIER rescue systems. We have incorporated the experience gained from countless rescue operations around the world into the enhancement of our products.

During tough and stressful operations, easy handling and robust construction matters a lot. So, when it comes to design and production, we prefer to rely on the experience of our own highly qualified experts only. And to keep your equipment in top condition, we ensure excellent supply availability, backed up by our superb service.



### A market leader with a worldwide presence

AWG firefighting and rescue equipment is used all over the world, which is why the products supplied conform to all international standards. There is a dealer network supporting AWG customers across 79 countries. The high level of confidence that fire brigades, industry and other users have in, makes AWG a leading manufacturer for mobile and stationary fire protection.

### More than 100 years of experience

The origins of the AWG company go back more than 100 years and – from the beginning just as it is today – the aim has always been to offer rescue workers the best possible equipment. Every single day, around 200 professionals work at Ballendorf (Baden-Württemberg) site, including engineers, business staff, technicians and client advisors, to make this requirement a reality. Many of them actually belong to the fire service and have first-hand knowledge of what is required during operations.



A black and white photograph of firefighters in action. Two firefighters in the foreground are wearing helmets and jackets with "SCHELL-VISTA" written on the back. They are holding a red fire hose. In the background, another firefighter is visible. The scene is filled with smoke or steam.

## OSW Fire Hoses

### The OSW-hose story

The OSW – Ohrdruffer SchlauchWeberei Eschbach GmbH was established in 1993 in the heart of Germany ... in the heart of Europe. As one of the leading manufacturers of lay-flat fire hoses and specialized hoses in Europe, OSW now enjoys a high reputation throughout the world.

OSW can offer a wide range of fire hoses meeting all requirements for firefighting operation as well as special hoses for irrigation, mining, refineries, ships ...



The OSW fire hoses meet the high standards of DIN 14 811:2008, prEN 1924, KTW, BS 6391:2009 Type 3, Lloyd's Register and Marine Coastguard Agency, just to mention a few. The use of high-quality raw materials combined with the most modern production facilities and manufacturing technologies are the guaranty for absolute top products. Permanent research, a well-trained labor force and flexibility is the base leaving satisfied customers all over the world.

All hoses can be supplied with international standard coupling systems. In order to be able to meet fire protection and industry requirements, OSW continually extend the product range with innovations and continuous further developments







i-SAFE

## We make the firefighting process easy

(thanks to the smart detection tube)

Complex requirements do not necessarily mean complex systems. Inspired and guided by this principle, **i-SAFE** systems have been created with the aim of reducing the functional components to the absolute basics and therefore providing maximum performance and absolute operational reliability.

In fire protection, the goal is not to put out a fire that has already grown, but to prevent a fire **BEFORE** it breaks out, or to put it out **BEFORE** it grows with unpredictable consequences. The aim is to suppress the initial fire.

This is exactly what the **i-SAFE** system serves. The soul of the system is the FiWaGuard thermal detection tube. With the flexibility that a 6 mm plastic pipe can provide, you can achieve 100% your goal, the suppression of the small initial focus, which is **ALWAYS** the forerunner of a growing fire.



The FiWaGuard thermal detection tube has infinite fire detection points on its surface. And every point that detects fire, the fire itself automatically turns it into a fire extinguishing nozzle. This dual nature of the tube makes the **i-SAFE** system both ideal and unique. Ideal, since the pipe can be installed at minimal cost, anywhere near potential sources of ignition and achieve the ultimate result in the event of a crisis.

Unique, because there is no similar system in the Market with infinite detection-extinguishing points.

With these two properties, the unique and the ideal, the **i-SAFE** system becomes an excellent weapon in your work, in order to provide solutions to applications that until now could not be covered by other conventional systems.

The **i-SAFE** system does not fail, it does not "break down". The design of its operation is based on the philosophy that it "breaks down" to work, so it can not fail to work if it breaks down! Thus, by covering the high risk points with the FiWaGuard thermal detection tube, you achieve the ultimate result. Extinguish the fire right at the point and time it is about to start.

The "heart" of the **i-SAFE** product range is the sensitive thermal tube FiWaGuard Sensor Tube, which functions as a linear flame and heat detector. The pressure (nitrogen) full heat pipe is fully flexible and can "run" throughout the installation, following the high risk areas. The presence of a flame or a sharp rise in temperature causes the pipe to rupture (break) at the hottest point, resulting in a drop in pressure causing the cylinder valve to activate and the fire extinguishing system to operate.

**No external power or power supply is required to detect and activate the system**



## EMERGENCY RESPONSE PLANS

Defines the set of prescribed and organized procedures and actions, as a management system, to reduce the vulnerability of the human agent and its environment, to deal with risk situations caused by natural or man-made hazards, usually under uncontrolled conditions (state of emergency), in order to reduce the catastrophic consequences for human casualties and property damage.



It essentially involves the organization and management of resources (human and material) and responsibilities (defines procedures) to deal with, in a comprehensive and coordinated manner, the alleged emergency, particularly in terms of preparedness, response and the short recovery, against it.





# FORMULA

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## ...Fire Protection

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