



New Generation Fire Sprinklers

Fire Protection Engineers

Tel: 082 4471591, E-mail: info@newgfs.co.za

NEW GENERATION FIRE PROTECTION ENGINEERS cc

New Generation Fire Sprinklers cc (NGFS cc) has a full range of fire protection services to offer our clients, designed and installed to each individual client's needs and requirements.

Our services and Equipment are Compliant with any Audit, By-Law and Insurance Institutions.

- **FIRE EXTINGUISHERS, HOSE REELS & FIRE HYDRANTS:**

Our skilled, experienced and SAQCC qualified technicians will ensure that all of the following is provided during maintenance or installation of new fire equipment

- : Servicing of fire extinguishers, fire hose reels & fire hydrants according to SANS 1475 Requirements
- : Monthly inspections of fire equipment
- : Pressure testing and recharging of fire equipment
- : Static and flow testing of fire hose reels and fire hydrants
- : Numbering of fire equipment & compiling Fire Registers
- : Supply and installation of new Carbon Dioxide, Dry Chemicals powder, foam and Wheeled Foam, carbon dioxide trolley units
- : Supply & Installation of New Fire Hose reels & Fire Hydrants
- : Supply & Installation of Steel, Fibre Glass & Plastic Cabinets for Fire Extinguishers, Fire Hose reels and Fire Hydrants
- : Supply & Installation of 30mm & 65mm Hydrant lay flat hoses, nozzles & couplings
- : Supply & Installation of SABS Approved symbolic Signage
- : Conducting Site Surveys at no cost to the client on the fire equipment required to Comply to SANS 10400 National Building Regulations





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- **MAINTENANCE, RECHARGE & PRESSURE TESTING OF
FIRE EXTINGUISHERS**

NGFS cc provides servicing of Dry chemical powder, Carbon Dioxide (CO2) & Foam Fire Extinguishers

- : All services are carried out according to SANS 1475 Part 1 – Portable & Wheeled (mobile) rechargeable fire extinguishers
- : Our Affiliates have a fully Accredited Workshop to Pressure Test and Recharge fire Extinguishers
- : All servicing is carried out by our Registered SAQCC Service Technicians

- **MAINTENANCE OF FIRE HOSE REELS & FIRE HYDRANTS**

We provide Maintenance of Fire Hose reels & Fire Hydrants as per SANS 1475 Part 2 – Fire Hose Reels & above ground





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- FIRE DETECTION SYSTEMS:

: Addressable Smoke Detection System:

An Addressable smoke detection system is one in which all fire & smoke detection devices in a system are connected and communicate both with each other and the main fire control panel. This interconnectivity allows the identification of the device's location or address.

Every device connected to the Addressable System has its own unique identifier/address. When a fire or fault is detected, the device's address will show up on the Fire Control Panel display. Thus, identifying a fault or fire and providing the quickest method of addressing extinguishment.

: Conventional Smoke Detection System:

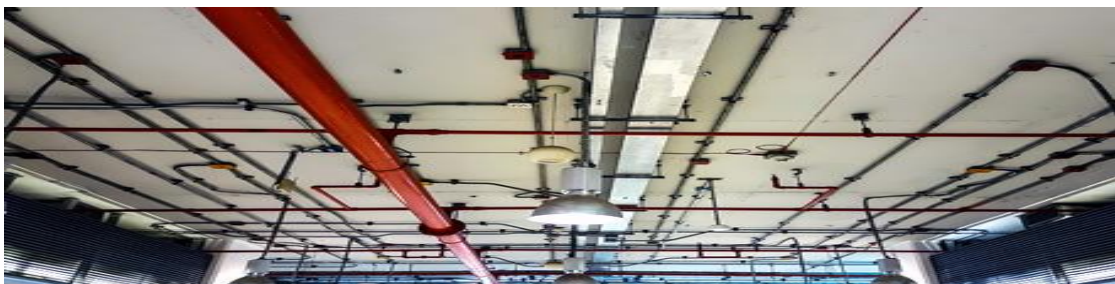
A Conventional System is a Fire alarm that identifies the activated smoke detector or manual call point by Zone LED display. A Conventional Smoke Detection System consists of Zones. Every zone comprises multiple initiating and notification devices which are linked to the conventional fire control panel. Conventional systems are Analog in that they use electrical currents to communicate with the main fire control panel.

: Beam Detection Systems:

An optical beam smoke detector is a device that uses a projected beam of light to detect smoke over large areas, typically as an indicator of fire. They are used in building where standard point type detectors are not economical or restricted due to the building's height.

: Early Warning High Sensitivity Systems:

Also known as Aspirating Smoke Detection Systems, early warning High-Sensitivity Systems are used in active Fire protection, consisting of a central detection unit that draws air through a network of pipes to detect smoke. The air sample then passes through a dual-stage filter. The first stage removes dust & dirt from the air sample before it enters the laser detection chamber, thus identifying the presence of smoke and potential fire.





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: In Cabinet Smoke Detection Systems:

Aspirating Smoke Detection is used to monitor smoke detection inside MCC Cabinets and Server Room cabinets. A network of pipes is run above the cabinets with capillaries installed above the cabinets used to sample the cabinet's air.

The air inside the cabinets is sampled through the dual-stage filter. The first stage removed the dust & dirt from the air sample before it enters the laser detection chamber, which detects smoke and alerts to potential fires.

: IR Flame Detection System:

A Flame detector is a sensor designed to detect and respond to the presence of a flame of fire. Responses to a detected flame depend on the installation of the system. The flame detector can trigger the fire alarm or deactivate a fuel line and trigger a gas suppression or foam suppression system.

The sensors of the flame detector operate via an infrared band. A small thermal imaging camera installed inside the detectors can instantly detect hot gasses released anywhere near a flame detector. Infrared waves can penetrate dust, fuel particles & oil films.

- **GAS SUPPRESSION SYSTEMS:**

Gas Suppression systems are used to extinguish, control, or in some cases, entirely prevent fires from spreading or occurring.

Gas Suppression systems have an incredibly large variety of applications, and as such, are designed for every types of Business, Building, and Fire Contingency.

All our Gas Suppression Systems are Designed to ensure that any area of coverage is protected – however large or small.

Our qualified Fire Technicians are able to Design, Supply, Install & Maintain all types of Gas Suppression Systems.

: Types of Gas Suppression Systems:

- FM 200
- Pyrogen In-Cabinet Protection
- Inergen
- Novec
- Argonite
- CO2
- Pyroshield
- Stat-X In-Cabinet Protection



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- **FIRE SPRINKLER PROTECTION SYSTEM:**

NGFS cc can provide Maintenance, Design, Installation of Sprinkler Protection Systems as per **ASIB, FM GLOBAL & NFPA REQUIREMENTS**

NGFS cc can assist with any of the following:

- : 3 Yearly Sprinkler Valve Overhaul
- : Rational Designs for Sprinkler Protection
- : Hydraulic calculations for Diesel Engine & Pump set for Sprinkler protection
- : Installation of Sprinkler Systems
- : Installation of Diesel Engine and Pump Sets
- : Annunciator Panel service
- : Replacement of Annunciator panel
- : Yearly services of Diesel Pump and Pump Sets





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- SANS 1475 FIRE EQUIPMENT:

NGFS cc supplies new fire equipment and all spares required for fire extinguishers, fire hose reels & fire hydrants, plus other fire-related products such as fire cabinets, covers & signage.

“ALL parts are SABS – APPROVED”

Fire Extinguishers:

We supply the following fire extinguishers

DRY CHEMICAL POWDER EXTINGUISHERS:

- 1kg DCP STP Fire extinguishers
- 1.5kg DCP STP Fire extinguishers
- 2.5kg DCP STP Fire extinguishers
- 4.5kg DCP STP Fire extinguishers
- 9kg DCP STP Fire extinguishers
- 25kg DCP STP Trolley Unit
- 50kg DCP STP Trolley Unit

WATER FIRE EXTINGUISHERS:

- 9l STP Fire Extinguisher

FOAM FIRE EXTINGUISHES:

- 9l Foam Fire extinguishers
- 25l Foam Fire extinguishers
- 50l Foam Fire extinguishers
- 120l Concentrated Foam Trolley Units (Imported)

CARBON DIOXIDE FIRE EXTINGUISHERS:

- 2kg CO2 Fire Extinguishers
- 5kg CO2 Fire extinguishers
- 10kg CO2 Fire extinguishers
- 36kg CO2 Trolley Units
- 45kg CO2 Trolley Units





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- **FIRE HOSE REELS & FIRE HYDRANTS:**

NGFS cc supplies new fire hose reels & fire hydrants including all spares and replacement of damaged parts. We can provide the following fire hose reels:

- Complete fire hose reels
- 30mm PVC Hose
- 30m Rubber hose
- Hose reel frames
- Replacement nozzles (plastic & aluminium)
- Waterways
- CP Valves
- Draw shackles

We also supply the following Fire Hydrants:

- Hydrant valves (Cast Iron & Brass)
- Hand wheels
- Couplings
- Lugs
- 30m Lay flat hoses (Canvas & rubber)
- Branch pipe nozzles





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- **FIRE CABINETS & COVERS:**

NGFS cc can source and supply a variety of fire cabinets suitable for fire extinguishers, Fire hose reels and fire hydrant lay flat hoses based on our client's Individual fire needs

- **FIRE SIGNAGE:**

NGFS cc can supply all our client's required symbolic safety signs for fire equipment and Evacuation Directional signage. All our signs Complies with SANS 10400 requirements and can be provided in ABS, CHROMEDECK & PHOTOLUMINESCENT format. All signage supplied is SABS 1186 Approved.





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“DON'T GET CAUGHT IN A FIRE. GET AN ASSESSMENT TODAY”

- **METHODS USED TO CONDUCT A FIRE RISK ASSESSMENT:**

Walkthrough evaluations of Buildings, Parking Areas, Surrounding Buildings, premises
The following literature from the mentioned Standards & Regulations are used to Ensure an Accurate, Comprehensive and Detailed Fire Risk Assessment

: Occupational Health & Safety Act , Act 85 of 1993

- General Administrative Regulations
- General Safety Regulations
- Vessels under pressure Regulations

: SANS 10400 the application of the National Building Regulations

- Part T – Fire Protection
- Part W – Fire Installation

: Emergency Services By-Laws

: SANS 1186 – 1 : 2003 Part 1 Symbolic Safety Signs (Standard signs and general requirements)

: SANS 10139 – Fire Detection & Alarm System For Buildings

