



## Firefly MGD

Advanced early fire detection solution  
for demanding applications





## Why use early fire detection?

Numerous fires could have been avoided by early fire detection. These fires have cost human lives and injuries as well as millions in damages and lost production for the affected industries.

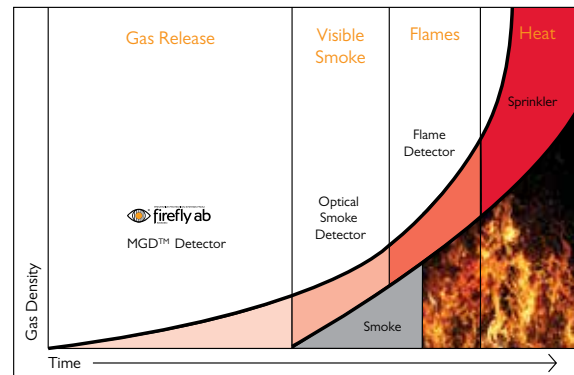
With 40 years of experience in providing preventive fire protection to the process industries, Firefly now offers FM-approved Multiple Gas Detection (MGD) as solution for early fire detection in tough industrial environments such as silos, warehouses, port facilities, industrial production areas, etc.


### Main features

- **Fire detection at an early stage**, using the highly advanced MGD technology
- **Designed for tough environments**, with robust design withstanding dust, humidity, vibration, etc.
- **Low maintenance required**, with calibration interval >10 years

## MGD Technology

MGD technology, originally developed for aerospace, is based on the detection of fire related gases. The Firefly MGD-detector can be described as an “electronic nose”. Through intelligent analysis of several different gas combinations, the detector can identify a fire at a very early stage.





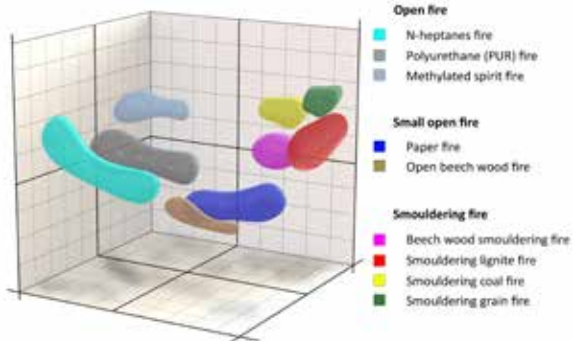
*“In 2011, we commissioned Georgia Biomass LLC’s Waycross, GA facility, the world’s largest wood pellet plant with an annual production of 750,000 metric tons. Our customer is committed to ensuring that their people and facility are as safe as possible and that their production is not interrupted by false alarms. Therefore, during the design of the plant, we chose Firefly’s advanced preventive fire protection system including the Firefly MGD detection technology to safeguard our customer’s people and assets. Firefly provided us with an integrated high-tech system, unequalled in the market. Firefly engineers provided first-class service and their know-how and experience in the bioenergy industry was extremely valuable to us.”*

Michael Adkins, Director of Process and Controls Development, BMC Consultancy Inc.” (wholly owned subsidiary of RWE Innogy)

## Multiple Alarm Functionality

Firefly MGD can be provided with multiple alarm functionality and tailored to each customer’s specific needs. A pre-alarm indication from a Firefly MGD-detector offers the earliest warning signal of an incipient fire.

MGD™ - Gas patterns



*“The Firefly MGD-detector shows that it is possible to identify an ongoing pyrolysis process in an earlier stage” compared to other detection methods. “The MGD-detector had the fastest response and indicated a “pre-alarm” within 1,5-3 hours.” \**

\* Excerpt from scientific report  
“Fire and fire extinguishment in silos”  
by Henry Persson et al.  
– SP Swedish National Testing and  
Research Institute



## About Firefly

Firefly is a Swedish company that provides the most advanced spark detection, flame detection and industrial fire protection systems to the worldwide process industry. Founded in 1973, Firefly has specialized in creating customer adapted system solutions of the highest technical standards and quality.

Firefly owns more than 40 patents, creating a unique portfolio of innovative products and system solutions. The company holds international approvals on its products and is noted on the OMX/NASDAQ First North Exchange in Stockholm, Sweden.

Firefly provides premium worldwide field service, maintenance and guaranteed long-term spare part supply.

Do you have a question about the fire risk in your plant? Contact us!  
We will be happy to assist you with our knowledge and experience.

*Firefly – Keeps you in production*

Phone +46 (0)8 449 25 00, Fax +46 (0)8 449 25 01  
Firefly AB, Stockholm, Sweden  
info@firefly.se www.firefly.se

Firefly MGD - Ver 1.1 | EN  
© Firefly AB (2016)

