



Sentio[®]

Early fire detection in subway systems



SENTIO® – MAIN FEATURES

- **Fire detection at an early stage**
Using highly advanced Multiple Gas Detection (MGD) technology
- **Designed for tough environments**
Robust design withstanding dust, humidity, vibration, rapid temperature changes, high air flows, etc.
- **Intelligent surveillance**
*Self-monitoring system
Centrally controlled*
- **Graffiti vandalism detection**
Using unique patented Fire CPSS™ (Classification Position Severity Spread) functionality

SENTIO® – THE CONCEPT

The Sentio® system consists of highly sensitive sensors, originally designed for the aerospace industry. Now developed to endure tough environments such as underground tunnel systems, the Sentio® sensors have the ability to detect fire related gases. This facilitates early detection of incidents, such as cable fires or burning waste. In addition, known disturbances such as exhaust fumes from diesel driven locomotives can be suppressed by the Sentio® system.

The Sentio® sensors are installed in tunnels and underground subway stations and connected through an advanced redundant network. If a sensor detects an incident, a detailed alarm will be given to the command centre. At the same time, automatic actions can be initiated by the Sentio® system. Operators in the command centre can simultaneously use this data to quickly assess the situation and make decisions on how to act.



SENTIO® – SL IN SWEDEN AT THE FRONTIER

In 2001, AB Storstockholms Lokaltrafik (SL) started to test the MGD technology in the subway. Today SL protects 56 underground stations and their connecting tunnels of about 80 kilometres with the Sentiono® system.

Johan Hedenfalk, retired Director of Safety at SL:

“SL has tested different types of technical solutions for fire and smoke detection in difficult underground environments for a long time. Previously tested products have not met our demands concerning accessibility, reliability and false alarms. The system development from Firefly in consultation with SL, in combination with the results of the test installation, has led me to the decision to equip our entire underground subway system with the Sentiono® system.”



Designed for tough environments



SENTIO® – A PART OF FIREFLY AB

Firefly is the world's leading supplier of fire and explosion protection systems for the process industries. With innovative solutions, high quality products and outstanding service, Firefly has served its customers over 40 years. The unique Firefly techniques have proven to be the most effective in preventing fire and dust explosions in the tough industrial environments of the process industries. Up to today, Firefly has delivered more than 6.000 protection systems worldwide.



Firefly AB
Phone +46 8 449 25 00, Fax +46 8 449 25 01
sentio@firefly.se www.sentiobyfirefly.se

