

## The new SecuriRAS® ASD 516

The new SecuriRAS® ASD 516 Aspiration Smoke Detection System from Securiton is an effective, yet flexible solution for customers who demand early fire detection. Whether in room monitoring or in object monitoring, one ASD Aspiration Smoke Detector can run up to 100m of pipe with up to 20 suction holes. Highly sensitive detectors enable earliest fire detection. The ASD 516 is VdS approved.

### Unique features of SecuriRAS® ASD 516:

1. Double detectors per system, ensure accurate detection results and best safety redundancy. This feature is useful especially when the ASD system is linked to automatically released extinguishing systems.

2. A smoke level indicator displays the smoke concentration and freely programmable outputs are available for triggering 3 pre-alarm signals accordingly. These pre-alarm outputs can be used to activate a data backup process to prevent loss of valuable information on servers, or can activate other pre-alarm sequences.

3. Integration into SecuriPro® fire detection system with fully remote access to all functions of the ASD. Up to 24 x 75 ASDs can be integrated into a SecuriLine® network with fully redundant loop configurations.

4. Up to 6 remote detectors can be added to one SecuriRAS® ASD system. Installation of up to 6 detectors inside the pipe network enables individual recognition of zones or objects. The remote detectors can be mounted directly on the equipment to ensure the shortest smoke traveling distance, and give individual identification for each monitored item.



## City tunnel São Paulo

The “Cidade Jardins” (city tunnel) is one of the most discussed construction projects in São Paulo. Built under one of the most important streets in this metropolis, the tunnel is 2 x 0.6 km long and is designed to reduce the traffic on the “Avenida Brigadeiro Faria Lima”. For this city of 18 million residents the construction project is of major transportation and political importance, since the tunnel has been scheduled to be officially opened for use about 3 weeks prior to regional elections.

Securiton has been a member of the standards committee for traffic tunnels in Brazil for nearly two years and provides key competence gained from its many years of experience in Europe and the regulations and guidelines in effect there for traffic tunnels.

Due to the numerous seminars and campaigns carried out by Securiton in the past, the Ansett Company (M&E contractor) asked Securiton to draw up a proposal for a system. The great chal-



lenge consisted of the short delivery and installation times required for the project. Securiton quickly came up with the solution: a SecuriSens® TSC 515 linked to a SecuriPro® and the entire installation managed from a control room. The SecuriPro® also protects the premises to include the transformer stations. All of the cable installations were carried out overnight.

Together with Securiton's partner Paraná em Rede and with the cooperation of the project manager on site, Securiton was able to deliver, install and commission on schedule. Inaugurated on September 6<sup>th</sup> 2004, the tunnel is the first to be built in compliance with the new national standards.

*Ramo 300 1-line exit shortly before inauguration.*

## Traffic tunnel with exemplary fire protection concept

**Tunnel accidents that cause fires are again making frightening headlines. The Markusbiert motorway tunnel in Luxembourg is a good example of how efficient measures can be implemented to prevent such catastrophes from happening.**

Opened a year ago, the tunnel has a sophisticated security concept based on a danger reporting system. Its alarm actuation and fire-fighting capability is unparalleled in Europe. The security technology is provided by Securiton GmbH; the Luxembourg system partner for implementation is Paul Wagner et Fils S.A.

### Gaining precious time through continual temperature measuring

During the security planning stage, fire detection that is both rapid and precise was the central issue, which is why Securiton integrated the SecuriSens® TSC 511 temperature sensor cable into both tubes of the 1,575-meter long Markusbiert Tunnel. Due to its rapid and reliable detection, this linear heat detector with its highly dependable failure protection and its full-featured software meets the extremely strenuous requirements of Heat Detection Class A1-D in compliance with EN 54. Over 400 tunnel-kilometres throughout Europe have



been made secure with this technology. SecuriSens® TSC 511 is a robust flat cable with small, integrated heat detectors. Spaced every 7.2 meters through the tunnel, the sensors measure the temperature precisely and send the data to the evaluating processor unit. Whenever the specified temperature threshold value is exceeded, the event is reported to the fire detection control unit, which then immediately reacts by blocking the tunnel and activating smoke ventilation.

### Exemplary security

After completion of the Markusbiert Tunnel, the responsible authorities carried out an exhaustive functional test of the tunnel technology which included setting test fires. The TSC 511 sensor cable required not more than 21 seconds to detect the fires. Thanks to its efficient alarm management system and Securiton fire protection measures, the Markusbiert Tunnel is considered to be one of the safest tunnels in Europe.

## Successful fire tests in South Korea

**In 2003 and 2004 the Korean Ministry for Construction and Transportation jointly carried out fire tests with the Korean Railway Research Institute. The objective of the test in the "University" metro station in Seoul was to determine the best possible fire protection solution.**



Securiton's partner in South Korea – RITCO (Royal Information Technology Corporation) – took part in the fire tests along with two well-known competitors. The following Securiton products were put to the test: the SecuriPro® fire detection system with the SecuriStar® SSD531 optical smoke detector and SecuriStar® UTD 531 universal temperature detector, the SecuriRAS® ASD 515 smoke extraction system, and the SecuriSens® ADW 511 linear heat detector.

RITCO not only achieved excellent test results, but was also the only company to meet the strenuous detection behaviour requirements. All Securiton systems triggered their alarms very fast and precisely. The Korean Ministry for Construction and Transportation and the Korean Railway Research Institute were both extremely satisfied with the results of the Securiton products. The project is currently still being processed.



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