



# Certificate

of  
**Approval**  
of  
Components and Systems

*Holder of the Approval:*

Securiton AG  
Alpenstraße 20  
CH-3052 Zollikofen

**This approval**

is valid only for the specified component/system as submitted for the test

- together with the parts listed in enclosure 1
- documented in the technical papers acc. to enclosure 2 (n/a for systems)

■ for application in the specified fire protection and security installations.

Use of the subject matter of the approval, is subject to the hints/comments of enclosure 3.

The validity of the approval can be extended upon application. Application for extension shall be submitted six months before expiry of the current approval at the latest.

This certificate may only be reproduced in its present form without any modification including all enclosures. All changes of the underlying conditions of this approval shall be reported at once to the VdS Certification Body enclosing the required documentation.

Any advertising with this VdS approved component/system shall reflect the correct contents of the certificate and shall not violate the trade practice rules.

Approval No.:	No. of pages:	Valid from:	Valid to:
G 204122	6	27.09.2010	26.09.2014

*Subject matter of the Approval:*

Line Type Heat Detectors  
Type ADW 511A and ADW 511A Ex II ATEX

*Use:*

in Automatic Fire Detection and Fire Alarm Systems

*Basis for approval:*

DIN EN 54-5:2001-03 - Heat Detectors - Point Detectors  
VdS 2344:2005-12 - Procedure Guidelines  
VdS 2503:1996-12 - Heat Detectors

Köln (Cologne), 22.09.2010

Schüngel

Managing Director

i. V. Hesels

Head of the VdS Certification Body

VdS Schadenverhütung GmbH  
Zertifizierungsstelle  
Amsterdamer Str. 174  
D-50735 Köln

A company of the German Insurance Association (GDV) (German federation of insurance companies)

Accredited by the "Deutsche Akkreditierungsstelle Technik (DATech)" as a certification body for the areas of fire protection and security



DAT-ZE 005/92



**Enclosure 1**

**Sheet 1**

To Certificate of Approval No. G 204122

Date 22.09.2010

The approved component/system comprises the following parts:

Description of component	Type	Applicant's Registration No.	Approval number of component (only complete for system approval)
Line Type Heat Detector	ADW 511A		
Line Type Heat Detector	ADW 511A-1		
Line Type Heat Detector	ADW 511A-2		
Line Type Heat Detector	ADW 511A Ex II ATEX		
Line Type Heat Detector	ADW 511A-1 Ex II ATEX		
Line Type Heat Detector	ADW 511A-2 Ex II ATEX		

**Enclosure 2**

Sheet 1

To Certificate of Approval No. G 204122

Date 22.09.2010

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
VdS Test Report No. BMA 04067 dated 21.09.2004			
VdS Test Report No. BMA 05075 dated 29.07.2005			
VdS Test Report No. BMA 08120 dated 24.09.2008			
VdS Software Test Report No. SW-95231 dated 04.10.1996			
1 <sup>st</sup> Supplementary to VdS Software Test Report No. SW-95231 dated 27.06.1997			
2 <sup>nd</sup> Supplementary to VdS Software Test Report No. SW-95231 dated 17.08.2004			
<b>ADW 511A:</b>			
Datasheet	T 139 419	01.08.08	6
Technical documentation	T 139 420	01.08.08	61
Parts list TRANSafe ADW 511A	G 137 739	06.08.01	2
Assembly drawing ADW 511A	C 137 738 h	25.08.04	1
Bill of materials beams	G 137 736	14.06.02	1
Assembly drawings beams	D 137 735 c	06.08.01	1
Parts list PCB	4100021	30.04.02	7
Circuit diagram	4100021	18.11.03	3
Component mounting diagram	4100021	10.12.03	2



To Certificate of Approval No. G 204122

Date 22.09.2010

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
<b>ADW 511A Ex II ATEX:</b>			
Operating instructions	T 130 881	01.08.08	8
Technical documentation	T 130 882	01.08.08	64
Drawing housing processed	2840505	17.01.07	1
Drawing housing complete	4100030	17.01.07	1
Drawing beam ADW 511A moulded	4100031	19.10.06	1
Drawing ADW 511A Ex II Atex	5100166.0101	01.11.06	1
Drawing ADW 511A-1 Ex II Atex	5100166.0102	01.11.06	1
Drawing ADW 511A-2 Ex II Atex	5100166.0103	01.11.06	1
Parts list housing complete	4100030	28.03.07	1
Parts list beam moulded	4100031	28.03.07	1
Parts list ADW 511A Ex II Atex	5100166-101	28.03.07	2
Parts list ADW 511A-1 Ex II Atex	5100166-102	28.03.07	3
Parts list ADW 511A-2 Ex II Atex	5100166-103	28.03.07	3

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Instructions for the application of the approval component/system (see enclosure 1):

Line type heat detectors type ADW 511A, ADW 511A-1 and ADW 511A-2, resp. ADW 511A Ex II ATEX, ADW 511A-1 Ex II ATEX and ADW 511A-2 Ex II ATEX, consisting of an evaluating unit and a sensor tube, are suitable for operation in automatic fire detection and fire alarm systems. The sensor pipe may be made from copper, stainless steel or teflon.

The detectors are designed for areas of application in which point detectors cannot be used because of specific environmental conditions such as road, railway and subway tunnels, paint spraying and painting systems, underground garages, loading platforms, tank farms, underground working and object surveillance.

Line type heat detectors type ADW 511A Ex II ATEX, ADW 511A-1 Ex II ATEX and ADW 511A-2 Ex II ATEX may be used in explosive zones 2 and 22.

For planning the projection instructions of the manufacturer, document no. T 139 420 resp. T 130 882, shall be observed. If planning is not performed by the manufacturer, all planning documents shall be countersigned by the manufacturer.

For standard applications the manufacturer stipulates seven system configurations for different ranges of use that can be selected at commissioning via a turn-switch in the detector housing. For applications with a teflon sensor pipe only the first four adjustments are available.

For each chosen program a response behaviour can be achieved that corresponds to the response classes A1 to G defined in EN 54-5. According to the chosen response class the maximum ceiling height shall be observed for the installation of the sensor tube: Class A1: 7.5 m, all other classes: 6.0 m

Type variants ADW 511A-1 (Ex II ATEX) and ADW 511A-2 (Ex II ATEX) are largely identical to the devices ADW 511A (Ex II ATEX). They just comprise an additional input/output module for direct connection of the device to the loop line of a Securiton or Schrack fire detection and fire alarm system.

ADW 511A-1 (Ex II ATEX): connection per input/output module SCI 82 to the SecuriLine-Loop  
ADW 511A-2 (Ex II ATEX): connection per input/output module BA-OI3 to the Integral-Loop



### Enclosure 3

Sheet 2

To Certificate of Approval No.: G 204122

Date 22.09.2010

Instructions for the application of the approval component/system (see enclosure 1):

Important technical data (acc. manufacturer's specifications):

Operating voltage (DC): 10.5 V to 30 V

Max. current consumption: 135 mA

Sensor tube length: 20 m to 130 m in tunnel applications  
20 m to 80 m for other applications