



Certificate

of Approval of Components and Systems

Holder of the Approval:

WAGNER Group GmbH
Schleswigstraße 1 - 5
DE-30853 Langenhagen

Approval No.:	No. of pages:	Valid from:	Valid to:
G 206004	39	01.07.2009	30.06.2013

Subject matter of the Approval:

Aspirating Smoke Detectors
Type TITANUS MICRO·SENS®; TITANUS RACK·SENS®

Use:

in Automatic Fire Detection and Fire Alarm Systems

Basis for approval:

DIN EN 54-20 (02/09) - Aspirating Smoke Detectors
DIN EN 54-17 (03/06) - Short Circuit Isolators
VdS 2344 (12/05) - Procedure Guidelines

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.

Köln (Cologne), 07.08.2009

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

To Certificate of Approval No. G 206004

Date 07.08.2009

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)
Device Base TITANUS <i>MICRO·SENS</i> [®] Detection Unit TITANUS <i>MICRO·SENS</i> [®] Detector Box Insert TITANUS <i>MICRO·SENS</i> [®] Basic Devices listed above, with Pre-Alarm	HB-TM, HB-TM-NF DM-TM-10, DM-TM-R-10, DM-TM-B-10, DM-TM-RB-10, DM-TM-Z-10, DM-TM-ZB-10, DM-TM-50, DM-TM-R-50, DM-TM-B-50, DM-TM-RB-50, DM-TM-Z-50, DM-TM-ZB-50, DM-MB-TM-10, DM-MB-TM-B-10, DM-MB-TM-50, DM-MB-TM-B-50, DM-TMV-xx-xx, DM-MB-TMV-xx-xx		



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Description of component	Type	Applicant's Registration No.	Approval number of component (only complete for system approval)
Basic Devices listed above as LSNi Version	DM-TMx-L1-xx-xx, DM-MB-TMx-L1-xx-xx		
Basic Devices listed above, with ROOM IDENT at Pre-Alarm	DM-TMx-xx-xx /a,		
Basic Devices listed above, as Frozen Version	DM-TMx-xx-xx-F, DM-MB-TMx-xx-xx-F,		
Smoke Aspirating System TITANUS <i>RACK-SENS</i> [®] 1HE	TR1-10, TR1-10-K, TR1-50, TR1-50-K		
Smoke Aspirating System TITANUS <i>RACK-SENS</i> [®] 2HE	TR2-50-K, TR2-50-1-K, TR2-10-NO, TR2-10-FM, TR2-50-NO, TR2-50-FM, TR2-50-1NO, TR2-50-2NO		
Basic Devices listed above, Version for France	TRx-xx-NF-xx		
Bosch Coupler	FLM-420/4-CON, FLM-420-2, FLM-420-RLV1		
EsserBus Coupler	808613.10		



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Siemens Coupler	DC 1157-AA, DC 1131-AA, FDCIO222, SPF5300		
Air Filter	LF-AD (-1/-2)		
Special Filter	SF-400 (/ -650)		
Detector Box	DM-MB- TM(V)-xx		
Sound Absorber	SD-1		
Condensate Separator	KA-DN 25		
Condensate Separator	KA-1		
Shut-Off Valve for Automatic Blow-Out Equipment VSK	AVK-PV (-F)		
Ball Valve	2KH (-F), 3KH (-F), 3KH-PVC, 3KH-ABS		
OxySens Detector	OA 1, OA 11, OA 2, OA 22, OP 1, OP 11, OP 2, OP 22		
Sound Absorber	SD-1		
Aspiration Reduction Foil	AF-x.y		
Aspiration Reduction	AK-x.y		
Ceiling Penetration	ABS-DF		



Enclosure 1

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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)
Collective Hood Pipe Hood Aspirating Funnel Test Adapter	SH300 (-E) R-RH, ABS-RH ASTW PA-PVC, PA-ABS		



To Certificate of Approval No. G 206004

Date 07.08.2009

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
VdS Test Report No. BMA06001 dated 31.01.2006 VdS Test Report No. BMA 09099 dated 29.06.2009 VdS Software Test Report No. SW-2004248 dated 12.01.2006 VdS Test Report No. BMA 07021 dated 11.05.2007 Basic Device: TITANUS MICRO·SENS® : DM-TM(V)(L1)-xx-xx(-F)(/a), DM-MB-TM(V)(L1)-xx-xx(-F)(/a),			
Technical Manual Smoke Aspirating System TITANUS MICRO SENS®	69-30-0520	01/09	212
Technical Manual Smoke Aspirating System TITANUS MICRO SENS® LSNi	69-30-0540	02/09	206
TITANUS MICRO·SENS® : Production Documentation, CD 1.13 dated 14.05.09 1. Schematic Diagrams, Parts Lists, Lower Part cpl.			
Lower Part cpl. - Assembly Sheet 1	G631.02-000, Rev. c	28.02.08	1
Lower Part cpl. - Assembly Sheet 2	G631.02-000, Rev. b	28.02.08	1
Lower Part cpl. - Parts List	G631.03-000, Rev. d	27.02.08	1
Lower Part cpl. LSN Bosch - Assembly	G631.02-001	28.02.08	2



To Certificate of Approval No. G 206004

Date 07.08.2009

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Type of document	Manufacturer's identification	Date	Number of Pages
Lower Part cpl. LSN Bosch – Parts List	G631.03-001	28.02.08	1
Air Filter – Assembly	G639.02, Rev. d	10.03.05	1
Air Filter – Parts List	G639.03, Rev. a	10.03.05	1
Contact Strip long, cpl. - Assembly	G632.02, Rev. a	22.02.05	1
Contact Strip long, cpl. – Parts List	G632.03, Rev. a	18.02.05	1
Contact Strip short, cpl. - Assembly	G633.02, Rev. a	22.02.05	1
Contact Strip short, cpl. – Parts List	G633.03, Rev. a	18.02.05	1
2. Schematic Diagrams, Parts Lists, Cover cpl.			
Cover cpl. - Assembly	G634.02, Rev. c	14.02.07	1
Cover cpl. – Basic Parts List	G634.03, Rev. a	29.12.04	1
Cover cpl. – Variants Parts List	G634.03, Rev. c	28.02.28	1
Cover cpl. LSN -Variants Parts List	G634.03	28.02.28	1
Channel cpl. - Assembly	G635.02, Rev. i	28.02.28	1
Channel cpl. – Basic Parts List	G635.03, Rev. e	28.02.28	1
Channel cpl. – Variants Parts List	G635.03, Rev. f	28.02.28	1
Channel cpl. LSN -Variants Parts List	G635.03	28.02.28	1
Connection Fan Cable Aspirating Fan / Blow-Out Fan	G635.04, Rev. b	14.02.07	1
Wiring Fan Cable Aspirating Fan / Blow-Out Fan	G635.08, Rev. a	19.02.07	1
Wiring Fan Cable Aspirating Fan / Rendundance Fan	G635.08	08.03.05	1
Wiring Flat Ribbon Cable	G635.11, Rev. a	15.02.07	1



To Certificate of Approval No. G 206004

Date 07.08.2009

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Type of document	Manufacturer's identification	Date	Number of Pages
Mounting Advice Channel cpl.	G635.10, Rev. c	15.02.07	1
Wiring Additional Board	G635.12	28.02.08	1
4. Cable Connecting Plans			
Cable Connecting Plan	W716.02, Rev. a	13.12.04	1
Cable Connecting Plan	W717.02, Rev. b	25.04.06	1
Cable Connecting Plan	W749.08, Rev. a	13.05.09	1
Cable Connecting Plan	W768.06	22.02.08	1
5. Type Labels			
Type Label WAGNER – Channel	G635.07, Rev. c	07.01.09	1
Type Label WAGNER – Cover	G634.07, Rev. h	16.03.09	1
Type Label Bosch – Channel LSN	G635.09, Rev. a	07.01.09	1
Type Label Bosch – Cover LSN	G634.08, Rev. a	23.04.09	1
Sticker Terminal Assignment LSN	G631.13	14.04.08	1
Packing – Note Sticker	G631.11	10.03.05	1
6. Test Instructions			
Test Instruction AD10 – Detection Unit	PA-AD10-DE, Rev. 01	26.08.05	2
Test Instruction AD10 – Detection Unit (Airflow Sensors)	PA-AD10-LS, Rev. 01	04.03.09	2
Test Instruction AD10 – Lower Part cpl.	PA-AD10-U, Rev. 01	26.08.05	2
Test Record for Detection Unit	PP-AD10-DE, Rev. 01	26.08.05	1
9. Indication PCB E650			
Circuit Diagram	E650.11	25.05.05	1



To Certificate of Approval No. G 206004

Date 07.08.2009

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Type of document	Manufacturer's identification	Date	Number of Pages
Component Mounting Diagram	E650.12	25.05.05	1
Parts List	E650.13	25.05.05	2
10 Basic PCB E647			
Circuit Diagram	E647.31, Rev. a	25.05.05	1
Component Mounting Diagram	E647.32	09.05.05	1
Parts List	E647.33, Rev. b	10.10.07	2
11. μC-PCB E648			
Circuit Diagram	E648.61, Rev. a	20.12.07	3
Component Mounting Diagram	E648.62	28.09.07	2
Parts List	E648.63, Rev. a	20.12.07	5
12. LED Holder			
LED Holder cpl.	E659.02, Rev. a	05.10.05	1
Parts List LED Holder cpl.	E659.03, Rev. a	05.10.05	1
Under Platter	E659.03, Rev. b	03.05.06	2
Top Platter	E659.11, Rev. b	03.05.06	2
Bracket	E659.13, Rev. a	03.05.06	1
LED bended	E659.14	15.08.05	1
13. Additional Board E649			
Circuit Diagram	E649.11, Rev. c	15.01.09	1
Component Mounting Diagram	E649.12	08.10.07	1
Parts List	E649.13, Rev. c	15.01.09	1
14. Accessories			
Parts List	E628.03, Rev. a	24.07.08	1



To Certificate of Approval No. G 206004

Date 07.08.2009

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Type of document	Manufacturer's identification	Date	Number of Pages
19. Assignment List			
Assignment List: Article No. – Hardware Variants	E634.10, Rev. b	04.03.08	1
AD10-AD14 Variants Lists	AD10-AD14	24.10.08	4
TITANUS MICRO-SENS®:			
Mechanics			
Production Documentation, CD 1.02 dated 13.02.07			
1. Lower Part:			
Lower Part, Page 1-3	G625.11	16.12.04	3
Lower Part, Page 4	G625.11	14.12.04	1
Lower Part, Page 5	G625.11	16.12.04	1
2. Lower Part:			
Lower Part	G625.26	20.12.04	1
4. Cover:			
Cover	G625.12	16.12.04	5
5. Channel:			
Channel, Page 1-2	G625.13	08.12.04	2
Channel, Page 3	G625.13	16.12.04	1
Channel, Page 4-6	G625.13	08.12.04	3
Channel, Page 7	G625.13	09.12.04	1
6. Apertures:			
Aperture R1	G625.19, Rev. a	21.07.05	1
Aperture R2	G625.20, Rev. a	21.07.05	1



To Certificate of Approval No. G 206004

Date 07.08.2009

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Type of document	Manufacturer's identification	Date	Number of Pages
Aperture R3	G625.21, Rev. a	21.07.05	1
Aperture T1	G625.22, Rev. a	21.07.05	1
7. Channel Bottom:			
Channel Bottom	G625.14, Rev. b	06.02.07	1
8. Contact Strip:			
Contact Strip, long	G625.16	07.12.04	1
Contact Strip, short	G625.17	07.12.04	1
9. Insert:			
Insert	G625.15	07.12.04	1
10. Sealings:			
Sealing Cover	G625.08, Rev. a	18.05.05	1
Sealing Chamber	G625.09	01.06.04	1
Sealing Channel	G625.10, Rev. b	06.02.07	1
11. Protection Cover:			
Protection Cover	G625.23	17.12.04	1
12. Shielding Cap:			
Shielding Cap	G625.07	07.12.04	1
Shielding Cap – Unwinding	G625.07	25.08.04	1
13. Air Filter:			
Filter Frame	G625.24	29.11.04	1
Filter Insert	G625.25, Rev. a	17.02.06	1
14. Distance Holder:			
Distance Holder	G625.18	17.12.04	1



To Certificate of Approval No. G 206004

Date 07.08.2009

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Type of document	Manufacturer's identification	Date	Number of Pages
15. Mounting Plate:			
Mounting Plate	G625.27	29.12.04	2
Shielding Cap	G625.28, Rev.a	07.07.06	1
TITANUS MICRO-SENS®:			
Accessories			
Production Documentation, CD 1.08 dated 11.12.07			
1. Front Foils (WAGNER):			
Front Foil Wagner	G626.11 /.12 /.13 /.14 /.15 /.16 /.17 /.18	29.12.04	16
Front Foil Wagner	G626.19, Rev. a	23.03.06	2
2. Front Foils - OEM (Customers):			
Front Foil Siemens	G627.12 /.14 /.16 /.18 /.19	03.03.06	10
Front Foil D+H	G627.28	25.01.06	2
5. Relay PCB for Indicator Bus			
Circuit Diagram	E668.11	16.07.07	1
Component Mounting Diagram	E668.12	16.07.07	1
Parts List	E668.13	16.07.07	1
Test Instruction	pa_e668, Rev. 01	19.12.06	4
Test Instruction	pa_e668-VA, Rev. 01	23.07.07	3
6. Housing for Accessories			
Housing for Accessories - Assembly	G637.02	01.04.05	2
Housing for Accessories - Parts List	G637.02, Rev. a	29.03.05	1



To Certificate of Approval No. G 206004

Date 07.08.2009

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Type of document	Manufacturer's identification	Date	Number of Pages
8. Response Indicator			
Assembly	G640.02	04.04.05	1
Type Label Wagner	G640.07	08.03.05	1
Parts List	G640.03	04.04.05	
PCB E656:			
Circuit Diagram	E656.01	28.01.05	1
Component Mounting Diagram	E656.02	28.01.05	1
Parts List	E656.03	01.02.05	1
10. Parallel Indication			
Assembly	G638.02, Rev. a	04.04.05	2
Type Label Wagner	G638.07, Rev. a	10.03.05	1
Parts List	G638.03, Rev. a	29.03.05	1
PCB E655:			
Circuit Diagram	E655.11	16.07.07	1
Component Mounting Diagram	E655.12	16.07.07	1
Parts List	E655.13	16.07.07	1
VdS Test Report No. BMA06001, dated 31.01.2006			
VdS Test Report No. BMA 09099, dated 29.06.2009			
VdS Software Test Report No. SW-2004248, dated 12.01.2006			
VdS Test Report No. BMA 07021 dated 11.05.2007			



To Certificate of Approval No. G 206004

Date 07.08.2009

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
<p>Basic Device: TITANUS RACK·SENS®: TR1-10, TR1-10-K, TR1-50, TR1-50-K</p>			
<p>Technical Manual Smoke Aspirating System TITANUS RACK SENS® 1HE</p>	69-30-0700	03/09	162
<p>TITANUS RACK·SENS® AD14D: Production Documentation, CD 1.04 dated 30.04.08</p>			
<p>1. Mounting Basic Device</p>			
<p>Mounting Basic Device</p>	G700.02, Rev. a	03.07.07	3
<p>Parts List Basic Device</p>	G700.03, Rev. b	11.09.07	2
<p>2. Mounting 24 V – 1 Detector Module</p>			
<p>Mounting 24V – 1DM</p>	G701.02, Rev. b	07.02.08	2
<p>Mounting 24V – 1DM</p>	G701.02, Rev. a	06.07.07	1
<p>3. Mounting ROOM IDENT</p>			
<p>Mounting 24V – 1DM</p>	G702.02, Rev. b	07.02.08	2
<p>Mounting 24V – 1DM</p>	G702.02, Rev. a	04.07.07	1
<p>4. Mounting Standard Device</p>			
<p>Mounting Standard Device</p>	G703.02, Rev. b	07.02.08	4
<p>5. Front Foils</p>			
<p>Front Foil WAGNER 1-1A / 1-1B / 1-5B / 1-6B / 1-8B / 2-1A / 2-1B / 2-5B / 2-6B / 2-8B</p>	G668.21.1A / .21.1B / .21.5B / .21.6B / .21.8B / .22.1A / .22.1B / .22.5B / .22.6B / .22.8B /	12.03.07	20



To Certificate of Approval No. G 206004

Date 07.08.2009

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Type of document	Manufacturer's identification	Date	Number of Pages
Front Foil WAGNER 2-5A	G668.22.5A	20.08.07	2
Front Foil WAGNER 3-6A / 3-6B / 3-8A / 3-8B	G668.23.6A, Rev.a / 23.6B, Rev.a / 23.8A, Rev.a / 23.8B, Rev.a	29.11.07	8
Front Foil BOSCH 4-6A / 4-6B / 4-8A / 4-8B	G668.24.6A / 24.6B / 24.8A / 24.8B	23.01.08	8
6. Test			
Test Instruction TITANUS RACK·SENS®	pa_AD14D	06.06.07	5
Test Record TITANUS RACK·SENS®	pp_AD14D	08.05.07	1
Test Record for Detection Unit	pp-AD14D-DE	28.09.06	1
7. Enclosure			
Parts List 1HE-24V	G761.03.001, Rev. b	28.04.08	1
Mounting Resistance	G761.32.001	29.01.08	1
Parts List Resistance	G761.33.001	30.01.08	1
10. Modul Front Plate			
Parts List Front Plate AD14D	G704.03	30.01.07	1
Basic Device: TITANUS RACK·SENS®: TR2-50-K, TR2-50-1-K, TR2-10-NO, TR2-10-FM, TR2-50-NO, TR2-50-FM, TR2-50-1NO, TR2-50-2NO			
Technical Manual Smoke Aspirating System TITANUS RACK SENS® 2HE	69-30-0800	03/09	198



To Certificate of Approval No. G 206004

Date 07.08.2009

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
TITANUS RACK·SENS® AD14DL2: Production Documentation, CD 1.03 dated 05.06.08			
1. Mounting Basic Device			
Mounting Basic Device, Page 1	G741.02, Rev. b	21.11.07	1
Mounting Basic Device, Pagen 2 to 6	G741.02, Rev. b	07.01.08	5
Parts List Basic Device	G741.03, Rev. c	07.05.08	3
2. Mounting 24V-1DM-ROOM IDENT			
Mounting 24V-1DM-ROOM IDENT	G742.02, Rev. d	29.04.08	1
Mounting 24V-1DM-ROOM IDENT	G742.02, Rev. b	05.05.08	1
Mounting 24V-1DM-ROOM IDENT	G742.02, Rev. c	05.05.08	1
Mounting 24V-1DM-ROOM IDENT	G742.02, Rev. b	05.05.08	1
Mounting 24V-1DM-ROOM IDENT	G742.02, Rev. c	05.05.08	1
3. Mounting 1 Bottle			
Mounting 1 Bottle, Sheet 1	G743.02, Rev. d	05.05.08	1
Mounting 1 Bottle, Sheets 2 to 4	G743.02, Rev. c	06.05.08	3
4. Mounting standard			
Mounting standard, Page 1 to 4	G744.02, Rev. c	06.05.08	4
Mounting standard, Page 5 to 6	G744.02, Rev. b	06.05.08	2
Mounting standard, Page 7	G744.02	07.05.08	1



To Certificate of Approval No. G 206004

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Type of document	Manufacturer's identification	Date	Number of Pages
5. Mounting standard with Air Recirculation Mounting standard with Air Recirculation	G745.02, Rev. c	07.05.08	3
6. Front Foils Front Foil WAGNER 1-5A / 1-5B / 1-6B / 1-8B / 2-5A / 2-5B / 2-6B/ 2-8B	G668.41.5A /.41.5B /.41.6B /.41.8B /.42.5A /.42.5B /.42.6B /.42.8B	12.03.07	16
Front Foil WAGNER 3-6A / 3-6B / 3-8A / 3-8B	G668.43.6A, Rev. b /.43.6B, Rev. b /.43.8A, Rev. b /.43.8B, Rev. b	02.06.08	8
7. Test Test Instruction AD14DL2	pa_AD14DL2, Rev. 03	23.01.08	7
Test Record AD14DL2	pp_AD14DL2, Rev. 01	08.05.07	1
Test Record for Detection Unit	pp-AD14D-DE, Rev. 01	28.09.06	1
8. Enclosure			
Parts List 2HE-24V-FM 200	G761.13-001, Rev. b	28.04.08	1
Parts List 2HE-24V-NOVEC 1230	G761.13-002, Rev. b	28.04.08	1
Mounting Resistances	G761.32.002	12.12.07	1
Parts List Resistances	G761.33.002	22.01.08	1
10. Front Plate			
Parts List Front Plate AD14DL2 AD14 - TITANUS RACK·SENS®	G729.03	16.04.07	1



To Certificate of Approval No. G 206004

Date 07.08.2009

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
Documentation Components, CD 1.05 dated 10.12.08			
1. Cable			
Overview Cable AD14D	Cable AD14D_Uebersicht, Rev. 02	01.09.08	1
Overview Cable AD14DL2	Cable AD14DL2_Uebersicht, Rev. 03	01.09.08	1
Connection Cable cpl. AD14LE	G747.12, Rev. b	02.04.08	1
Parts List Connection Cable cpl. AD14LE	G747.13, Rev. b	01.04.08	1
Connection Cable 1 cpl. AD14LE- Bosch	G747.22, Rev. c	25.08.08	1
Parts List Connection Cable 1 cpl. AD14LE-Bosch	G747.23, Rev. c	25.08.08	1
Connection Cable 2 cpl. AD14LE- Bosch	G747.32	21.08.08	1
Parts List Connection Cable 1 cpl. AD14LE-Bosch	G747.33	25.08.08	1
2. Plates, Type Labels			
Type Label WAGNER – Channel 2 AD14D, AD14DL2	G670.10	12.09.06	1
Type Label WAGNER AD14D	G670.11, Rev. b	12.11.08	1
Type Label WAGNER AD14DL2	G670.21, Rev. a	12.11.08	1
Type Label WAGNER EF-1	G670.41, Rev. a	09.12.08	1
Type Labels WAGNER ESU-1, SU-3	G670.51, Rev. a	14.09.07	1



To Certificate of Approval No. G 206004

Date 07.08.2009

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Type of document	Manufacturer's identification	Date	Number of Pages
Type Label WAGNER AD14L2	G670.71, Rev. a	12.11.08	1
Type Label WAGNER AD14LC	G670.80, Rev. a	10.12.08	1
4. Indication PCB E669			
Circuit Diagram	E669.11, Rev. a	13.12.07	1
Component Mounting Diagram	E669.12, Rev. b	03.06.08	2
Parts List	E669.13, Rev. b	14.03.08	2
Test Instruction	pa_e669, Rev. 02	03.06.08	4
Test Record	pp_e669, Rev. 01	09.01.07	1
5. Temperature Indication PCB E670			
Circuit Diagram	E670.11	15.01.07	1
Component Mounting Diagram	E670.12	15.01.07	2
Parts List	E670.13	15.01.07	1
Test Instruction	pa_e670, Rev. 02	03.06.08	4
Test Record	pp_e670.xls, Rev. 01	09.01.07	1
6. Switch PCB E671			
Circuit Diagram	E671.01	26.06.06	1
Component Mounting Diagram	E671.02	26.06.06	1
Parts List	E671.03, Rev. a	13.12.07	1
7. Connection PCB E673			
Circuit Diagram	E673.31	17.07.07	6
Component Mounting Diagram	E673.32	17.07.07	2

To Certificate of Approval No. G 206004

Date 07.08.2009

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
Parts List	E673.33	17.07.07	4
Test Instruction	pa_e673, Rev. 02	19.07.07	24
9. 24V-DC Connection PCB E678			
Circuit Diagram	E678.11	01.03.07	1
Component Mounting Diagram	E678.12	01.03.07	1
Parts List	E678.13	01.03.07	1
10. μC-PCB E648			
Circuit Diagram	E648.71, Rev. a	20.12.07	3
Component Mounting Diagram	E648.72	28.09.07	2
Parts List	E648.73, Rev. a	20.12.07	5
Test Specification	E6487prf_en, Rev. 02	20.06.08	5
11. Extinguishing Module E674			
Circuit Diagram	E674.31	26.09.07	5
Component Mounting Diagram	E674.32	26.09.07	2
Parts List	E674.33	26.09.07	3
12. Indication PCB E675			
Circuit Diagram	E675.01	31.08.07	1
Component Mounting Diagram	E675.02, Rev. a	13.12.07	2
Parts List	E675.03, Rev. a	13.12.07	1
13. Extinguishing Module 2 E685			
Circuit Diagram	E685.01, Rev. a	13.12.07	5
Component Mounting Diagram	E685.02	19.09.07	2
Parts List	E685.03, Rev. a	13.12.07	3



To Certificate of Approval No. G 206004

Date 07.08.2009

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
16. 24V Connection Unit			
24V Connection Unit	G678.02, Rev. b	14.09.07	1
Parts List 24V Connection Unit	G678.03, Rev. b	14.09.07	1
17. Channel 2 cpl.			
Mounting - Channel 2 cpl.	G673.02, Rev. c	28.04.08	1
Parts List - Channel 2 cpl.	G673.03, Rev. d	29.10.08	1
18. Fan Unit Radial 1 cpl.			
Mounting - Fan Unit Radial 1 cpl. AD14D	G676.02, Rev. b	28.06.07	1
Parts List - Fan Unit Radial 1 cpl. AD14D	G676.03, Rev. a	05.07.07	1
Mounting - Fan Unit Radial 1 cpl. AD14DL2	G676.12	24.07.07	1
Parts List - Fan Unit Radial 1 cpl. AD14DL2	G676.13	24.07.07	1
19. Fan Unit Radial 2 cpl.			
Mounting - Fan Unit Radial 2 cpl.	G677.02, Rev. a	28.06.07	1
Parts List - Fan Unit Radial 2 cpl.	G677.03, Rev. a	05.07.07	1
Mounting - Fan Unit Radial 2 cpl. DL2	G677.12	24.07.07	1
Parts List - Fan Unit Radial 2 cpl. DL2	G677.13	24.07.07	1
20. Air Filter cpl.			
Mounting - Air Filter cpl.	G675.02, Rev. b	29.04.08	1
Parts List - Air Filter cpl.	G675.03	04.01.07	1



To Certificate of Approval No. G 206004

Date 07.08.2009

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
21. Blind Plate			
Parts List Blind Plate 1	G705.03	23.11.06	1
Parts List Blind Plate 3	G722.03	23.11.06	1
23. Detector Module			
Parts List Detector Module 0,1	G709.03, Rev. c	29.10.08	1
Parts List Detector Module 0,5	G710.03, Rev. c	29.10.08	1
Calibration Instruction	KalanwTMS, Rev. 02	19.02.07	11
24. Network Module			
Parts List - Module Ethernet AD14D	G712.03, Rev. a	03.07.07	1
Parts List - Module Ethernet AD14DL2	G718.03, Rev. a	03.07.07	1
26. Temperature Indication			
Parts List - Temperature Indication	G714.03, Rev. a	03.07.07	1
28. Fan Unit Transverse Current 1 cpl.			
Mounting - Fan Unit Transverse Current 1 cpl.	G679.02, Rev. a	05.07.07	1
Parts List - Fan Unit Transverse Current 1 cpl.	G679.03, Rev. d	04.12.08	1
29. Extinguishing Module 1 external (E674)			
Mounting - Extinguishing Module 1 external	G720.02, Rev. b	04.09.07	1
Parts List - Extinguishing Module 1 external	G720.03, Rev. c	04.12.08	1



To Certificate of Approval No. G 206004

Date 07.08.2009

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
Mounting - Transparent Hood 1 cpl.	G740.02, Rev. a	13.08.07	1
Parts List - Transparent Hood 1 cpl.	G740.03, Rev. a	09.12.08	1
Mounting Resistances	G761.32-004	13.12.07	1
Parts List Resistances	G761.33-004	30.01.08	1
30. Fastening Set			
Parts List - Fastening Set 1DM	G706.03	23.11.06	1
Parts List - Fastening Set 2 DM	G707.03	14.12.06	1
Parts List - Fastening Set 19"- Insert	G746.03, Rev. a	16.10.07	1
31. Front Plates			
Parts List - Front Plate AD14D	G704.03	30.01.07	1
Parts List - Front Plate AD14DL2	G729.03	16.04.07	1
33. 24 V Connection Unit AD14			
Parts List - 24V Connection Unit AD14D	G723.03	14.12.07	1
Parts List - 24V Connection Unit AD14DL2	G724.03	27.04.07	1
34. Control Unit			
Control Unit 1 cpl.	G749.02	26.09.08	3
Parts List Control Unit 1 cpl.	G749.03	29.09.08	2
35. Air Baffle			
Parts List - Air Baffle 2	G731.03	17.04.07	1
36. Air Recirculation			
Parts List - Air Recirculation 1	G732.03, Rev. a	10.08.07	1



To Certificate of Approval No. G 206004

Date 07.08.2009

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
38. Pen Control			
Pen Control	G755.02	08.02.08	1
Parts List Pen Control	G755.03	27.03.08	1
AD14 - TITANUS RACK-SENS®			
Documentation Mechanics, CD 1.06 dated 23.02.09			
1. Chassis			
Chassis 1 cpl.	G669.11, Rev. b	08.11.06	2
Chassis 2 cpl.	G669.08, Rev. e	31.10.08	1
Chassis 2	G669.08, Rev. d	31.10.08	1
Chassis 5 cpl.	G669.43, Rev. d	07.04.08	1
Chassis 5	G669.43, Rev. d	09.10.08	1
Chassis 5	G669.43, Rev. e	09.10.08	1
Chassis 1 cpl. reworked	G669.11-n	16.03.07	1
Chassis 1 reworked	G669.11-n	16.03.07	1
2. Fan Adapter			
Fan Adapter	G669.40, Rev. a	25.08.06	1
3. Front Plate			
Front Plate 1	G669.13-000, Rev. b	27.04.07	1
Front Plate 2	G669.10-000, Rev. b	17.12.07	1
Front Plate 5	G669.45-000, Rev. c	11.12.07	1
4. Cover			
Cover 1 cpl.	G669.12, Rev. a	14.08.06	1



To Certificate of Approval No. G 206004

Date 07.08.2009

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
Cover 1	G669.12, Rev. a	14.08.06	1
Cover 2 cpl.	G669.09	25.09.06	2
Cover 5 cpl.	G669.44, Rev. a	26.04.07	2
5. Channel			
Channel 2, Sheets 1 and 3	G669.14	02.02.06	2
Channel 2, Sheet 2	G669.14	03.02.06	1
Channel 2, Sheets 4, 5, 6 and 7	G669.14	06.02.06	4
6. Connecting Piece			
Connecting Piece 1	G669.15	03.02.06	1
Connecting Piece 2	G669.19	31.01.06	1
Connecting Piece 3	G669.132	23.10.08	1
7. Individual Parts Air Filter			
Lower Part Air Filter	G669.31, Rev. a	26.03.08	1
Upper Part Air Filter	G669.32	04.07.06	1
Filter Insert	G669.33	03.07.06	1
Filter Element	G669.34	17.04.07	1
Snap Angle	G669.36	28.07.06	1
U-Bolt	G669.37	28.07.06	1
8. Isolations			
Isolation 1	G669.23	20.07.06	1
Isolation 2	G669.24	20.07.06	1
Isolation 3	G669.29	18.07.06	1

**Enclosure 2**

Sheet 21

To Certificate of Approval No. G 206004

Date 07.08.2009

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
Isolation 4	G669.38, Rev. a	13.02.07	1
Isolation 5	G669.41	20.03.07	1
Isolation 6	G669.58, Rev. a	27.04.07	1
9. Bushing			
Bushing 1	G669.25, Rev. a	04.04.06	1
10. Sealings			
Flat Sealing	G669.20, Rev. a	23.08.06	1
Sealing Ring	G669.21, Rev. a	25.07.06	1
Sealing Connecting Piece 1	G669.30	25.07.06	1
Sealing Filter Insert	G669.35	30.11.06	1
11. Insert Nut			
Insert Nut	G669.22	21.07.06	1
12. Shielding Plate			
Shielding Plate 1	G669.18	15.01.07	1
13. Fan Plate cpl.			
Fan Plate, Fan Plate cpl.	G669.39, Rev. b	03.03.07	2
16. Adapter			
Adapter 1 Air Recirculation	G669.64, Rev. b	02.07.07	1
Adapter 2 Air Recirculation	G669.65, Rev. a	02.05.07	1
Adapter Pressure Switch	DS_01	30.06.06	1
Adapter 1 Buzzer	G669.131	09.10.08	1
17. Wire			
Wire 1	G669.49, Rev. a	08.02.07	1



To Certificate of Approval No. G 206004

Date 07.08.2009

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
Wire 2	G669.85	07.09.07	1
Wire 3	G669.86	07.09.07	2
Wire 4	G669.11	26.06.08	1
18. Angle			
Mounting Angle 1 cpl.	G669.54, Rev. d	07.04.08	1
Mounting Angle 1	G669.54, Rev. b	04.09.07	1
Mounting Angle 2 cpl.	G669.55, Rev. c	31.10.08	2
Mounting Angle 3 cpl.	G669.61, Rev. a	02.07.07	2
Mounting Angle 4	G669.96	10.09.07	1
Mounting Angle 5	G669.99	17.12.07	1
19. Angle			
Angle 24V-Connection cpl.	G669.26, Rev. a	27.04.07	1
Angle 24V-Connection	G669.26, Rev. a	27.04.07	1
Centering Angle 1	G669.63	26.04.07	1
U-Bolt 1	G669.67	04.05.07	1
Top-Hat Rail Angle 1	G669.81, Rev. c	22.01.08	1
Layer Angle 1	G669.82	07.09.07	1
Holding Angle 1	G669.83, Rev. a	30.08.07	2
Holding Angle 2	G669.84, Rev. a	10.09.07	2
Holding Angle 1 cpl.	G727.02, Rev. c	24.01.08	2
Parts List Holding Angle 1 cpl.	G727.03, Rev. c	28.04.08	1
Top-Hat Rail	G669.89-000, Rev. a	14.08.08	1



To Certificate of Approval No. G 206004

Date 07.08.2009

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
Protection Angle 2	G669.94, Rev. b	03.09.08	1
Switch Angle 1	G669.101, Rev. c	29.04.08	1
Switch Angle 1	G669.101, Rev. c	21.04.08	1
Square 1 cpl.	G669.48, Rev. a	07.02.07	1
Square 1	G669.48, Rev. a	07.02.07	1
Square 2 cpl.	775.02	08.10.08	1
Parts List Square 2 cpl.	775.03	08.10.08	1
20. Small Parts			
Spacer Washer	G669.16	12.01.07	1
Protection Angle 1	G669.50, Rev. a	09.02.07	1
Air Baffle 2	G669.53, Rev. a	09.02.07	1
Centering Plate 1	G669.59, Rev. a	23.04.07	1
Blind Plate 1	G669.60, Rev. a	08.02.07	1
Blind Plate 2	G669.62, Rev. a	04.10.07	1
Blind Plate 3	G669.66	18.04.07	1
Blind Plate 4	G669.90	24.09.07	1
Plate 1	G669.123	24.09.08	1
Centering Plate 2	G669.129	27.08.08	1
21. Partition			
Partition 1 cpl.	G669.51, Rev. b	14.09.07	2
Partition 2 cpl.	G669.52, Rev. b	14.09.07	2
22. Pipe			
Pipe	G669.75-000	26.04.07	1



To Certificate of Approval No. G 206004

Date 07.08.2009

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
Pipe 90°	G669.76-000, Rev. a	06.08.07	1
Pipe Z 45°	G669.77-000	07.08.07	1
Pipe LRF	G669.78	08.08.07	1
23. Pressure Pipe			
Pressure Pipe 1	G669.56, Rev. b	30.09.08	1
Pressure Pipe 2	G669.57, Rev. d	01.10.08	1
Pressure Pipe 3	G669.87, Rev. b	01.10.08	1
Pressure Pipe 4	G669.88, Rev. a	01.10.08	1
Pressure Pipe 6	G669.97-000, Rev. b	18.07.08	1
Pressure Pipe 9	G669.122, Rev. b	01.10.08	1
Pressure Pipe 11	G669.128, Rev. a	01.10.08	1
24. Individual Parts Extinguishment			
Extinguishing Pipe 1	G669.70, Rev.c	01.10.08	1
Aspirating Head 1	G669.72	11.05.07	1
Protection Tube	G669.73	11.05.07	1
Adapter Immersion Tube M16	G669.74	11.05.07	1
Locking Screw G1/8"	G669.17, Rev.a	28.11.07	1
Locking Screw G3/8"	G669.24, Rev.a	29.11.07	1
Pyro-Adapter 1	G669.69, Rev.b	28.11.07	1
Extinguishing Pipe 2	G669.100, Rev.b	30.09.08	1
25. Individual Parts Transverse Current Fan			
Fan Plate 1 cpl.	G669.27-000, Rev. a	04.09.07	1



To Certificate of Approval No. G 206004

Date 07.08.2009

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
Fan Plate 1	G669.27-000	26.04.07	1
Fan Cage	G669.28, Rev. a	02.07.07	1
26. Transparent Hood			
Transparent Hood 1 revised	G669.71, Rev. a	03.09.07	1
Transparent Hood 1 cpl.	G740.02, Rev. a	13.08.08	1
Parts List Transparent Hood 1 cpl.	G740.03, Rev. a	09.12.08	1
27. Tube			
Tube 1 cpl. LRF	G669.79	08.08.07	1
28. Supporting Plate			
Supporting Plate 1	G669.80, Rev. a	30.08.07	2
TITANUS MICRO·SENS[®], TITANUS RACK·SENS[®]			
Firmware Documentation Production, CD 1.04 dated 14.05.09			
1. Programming – Configuration (E673)			
Programming Instruction AD14	PR_AD14D, Rev. 02	13.05.08	5
Programming Instruction Firmware E673	S00056.01, Rev. a	26.02.08	1
Programming Instruction Parameter Data Set	SP0056.00	14.06.07	1
2. Programming - Calibration - Configuration (E648)			
Calibration Instruction	KalanwTmsTrs, Rev. 06	06.11.08	17



To Certificate of Approval No. G 206004

Date 07.08.2009

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
Configuration Calibration Software (AD10)	SK0048.01, Rev. h	11.05.09	2
Configuration Calibration Software (AD14)	SK0048.03, Rev. d	11.05.09	1
Configuration Calibration Software (AD10-LSNi)	SK0048.04, Rev. b	11.05.09	1
Programming Instruction Controller (Firmware AD10/AD14)	S00041.01, Rev. n	30.04.09	1
Programming Instruction Controller (Firmware AD10LSNi)	S00041.01, Rev. d	30.04.09	1
Programming Instruction Controller (Firmware Calibration)	S00047.01, Rev. b	17.09.07	1
4. Parameter Data Sets			
Data Set E673	ParamBaseSet.rsd	14.06.07	-
Data Set Switch-Off Module E674	Template_63_3_1_(abschalt).rkd	30.08.07	-
5. PC Tools			
AVR Studio V.4.13	S0072	29.01.09	-
AD14D Connection Diagram Programmer	S0074	29.01.09	-
Calibration Software Detector (Setup)	S0048, Rev. 2.04	13.05.09	-
6. Firmware			
Firmware E673	S0056.01.003.hex	13.05.08	-
Firmware E674/E685	S0063.hex	07.01.08	-
Bootloader E674/E685	S0067.hex	20.07.07	-



To Certificate of Approval No. G 206004

Date 07.08.2009

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
Test Firmware E674	S0071.hex	13.07.07	-
Test Firmware E685	S0078.hex	07.11.07	-
Accessories for WAGNER-Devices 1, Version dated 15.02.08:			
1. Aspiration Reductions, Banderole			
Aspiration Reduction Foil AF	G409.04, Rev. e	06.09.01	1
Aspiration Reduction Foil AFW	G409.04, Rev. b	06.09.01	1
Banderole AF-BR	G409.04, Rev. c	15.01.96	1
Banderole OS-A	G616.04	02.06.03	1
3. Aspiration Reduction (Freezing Houses)			
Aspiration Reduction for Freezing Houses	G491.04, Rev. c	14.03.07	1
Plastic Clip for Freezing Houses	G491.04	04.04.96	1
4. Pipe Hood			
T-Part with Pane	G366.02	29.06.94	1
Pane for Pipe Hood	G366.04	20.07.94	1
7. Air Filter LF-AD (-1/-2)			
Air Filter	G482.02, Rev. b	30.03.07	1
Housing Lower Part with Attachments	G482.02, Rev. c	30.03.07	1
Housing Cover with Attachments	G482.02	17.02.00	1
Housing Lower Part	G482.04, Rev. c	30.03.07	1
Filter Insert 1	G482.04, Rev. b	02.12.04	1



To Certificate of Approval No. G 206004

Date 07.08.2009

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
Filter Mat	G482.04, Rev. a	20.03.06	1
Type Label Wagner	G482.05, Rev. a	03.04.07	1
Sticker 1	G482.05	21.02.00	1
7. Air Filter LF-AD (-1/-2)			
Filter Insert 2	G482.09, Rev. a	30.03.07	1
Sticker 2	G482.09	17.03.06	1
Variants Parts List	G482.03, Rev. b	10.12.07	1
Parts List	G482.03, Rev. e	30.03.07	1
Cable Connection with Guide Washer	G369.02, Rev. a	10.04.07	1
Parts List	G369.03, Rev. b	30.03.07	1
Guide Washer	G369.04, Rev. c	10.04.07	1
9. Air Filter SF-400, SF-650			
Air Filter SF-400, SF-650	G549.02, Rev. c	23.03.07	1
Plug Output	G549.04, Rev. b	15.02.05	2
Parts List SF-400	G549.03, Rev. b	28.02.05	1
Parts List SF-650	G550.03, Rev. b	28.02.05	1
Type Label WAGNER	G549.05, Rev. c	03.04.07	1
18. Reset PCB (Confirmation PCB)			
Circuit Diagram	E548.11, Rev. c	21.06.06	1
Component Mounting Diagram	E548.12	30.08.95	1
Parts List	E548.13, Rev. g	11.02.08	2

To Certificate of Approval No. G 206004

Date 07.08.2009

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
Accessories for WAGNER-Devices 2, CD 1.21, Version dated 19.01.09:			
38. Sound Absorber			
Sound Absorber Assembly	G657.02	12.05.05	1
Side Part	G657.11	11.05.05	1
Central Part	G657.12	11.05.05	1
Sound Absorber – Parts List	G657.03	12.05.05	1
Type Label	G657.07	12.05.05	1
To 43. PCB E682:			
Circuit Diagram	E682.31	29.07.08	1
Component Mounting Diagram	E682.32, Rev. a	19.01.09	1
Parts List	E682.33, Rev. a	19.01.09	1
Parts List High Power Variants	E682.33, Rev. a	19.01.09	1
To 43. PCB E686 – Relay PCB:			
Circuit Diagram	E686.11	18.06.07	1
Component Mounting Diagram	E686.12	18.06.07	1
Parts List	E686.13	18.06.07	1
99. Coupler:			
DC1157-AA	„Interaktiv“ G 299031		
DC1131-AA	„AnalogPlus“ G 299030		
FDCIO222	„Sinteso“ G 204029		
SPF5300	„SigmaSys“ G 299022		



To Certificate of Approval No. G 206004

Date 07.08.2009

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
808613.10 „TP-x-ZE”, „TT-x-ZE” FLM-420/4-CON FLM-420-2 FLM-420-RLV1	“EsserBus” G 206042 „LSN improved“ G 208010 „LSN improved“ G 207076 „LSN improved“ G 207077		



To Certificate of Approval No.: G 206004

Date 07.08.2009

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

TITANUS MICRO·SENS®

The following limit values must be observed for adjustment of the airflow monitoring system depending on the size of the pipework:

Allowable as a limit value for the threshold of a fault signal are 20% of the total airflow per pipework. This fault shall be detected within 300s.

The projection instructions according to the technical manual 'Rauchansaugsystem TITANUS MICRO·SENS®' Edition 01/09 or of the projection software TF-SC-1 of the manufacturer shall be regarded.

Technical data:

Operating voltage: 16 to 30 V DC

Current consumption at 24 V DC, without additional modules:

- Initial current: max. 150 mA (not depending on fan voltage)
- Current consumption quiesc.: max. 105 mA (standard fan voltage 9.0 V)
- Current consumption alarm: max. 140 mA (standard fan voltage 9.0 V)

Contact rating of
alarm- and fault relay: 30 V, 1 A
Switching capacity: max. 24 W

Restrictions of the area of application for the use of couplers:
The respective specifications of the manufacturer shall be regarded.

TITANUS MICRO·SENS® with localisation function „ROOM IDENT“

The following limit values must be observed for adjustment of the airflow monitoring system depending on the size of the pipework:

Allowable as a limit value for the threshold of a fault signal are 20% of the total airflow per pipework. This fault shall be detected within 300s.



To Certificate of Approval No.: G 206004

Date 07.08.2009

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

The projection instructions according to the technical manual 'Rauchansaugsystem TITANUS MICRO·SENS®' Edition 01/09 or of the projection software TF-SC-1 of the manufacturer shall be regarded.

Version „/a” with ROOM IDENT at pre-alarm:

This ROOM IDENT version exclusively is intended for the use in applications, in which a fire detection and fire alarm system is not required or in which the device is used in addition to a fire detection and fire alarm system. The device may be connected to a fire detection and fire alarm system.

Technical data:

The technical data and restrictions for TITANUS MICRO·SENS® are valid.

TITANUS MICRO·SENS® LSNi

The following limit values must be observed for adjustment of the airflow monitoring system depending on the size of the pipework:

Allowable as a limit value for the threshold of a fault signal are 20% of the total airflow per pipework. This fault shall be detected within 300s.

The projection instructions according to the technical manual 'Rauchansaugsystem TITANUS MICRO·SENS® LSNi ' Edition 02/09 or of the projection software TF-SC-1 of the manufacturer shall be regarded.

Technical data:

Operating voltage: 16 bis 30 V DC

Current consumption at 24 V DC, without additional modules:

- Initial current: max. 120 mA (standard fan voltage 9.0 V)
- Current consumption quiesc.: max. 90 mA (standard fan voltage 9.0 V)
- Current consumption alarm: max. 180 mA (standard fan voltage 9.0 V)



To Certificate of Approval No.: G 206004

Date 07.08.2009

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

TITANUS RACK·SENS® 1HE

The following limit values must be observed for adjustment of the airflow monitoring system depending on the size of the pipework:

Allowable as a limit value for the threshold of a fault signal are 20% of the total airflow per pipework. This fault shall be detected within 300s.

The projection instructions according to the technical manual 'Rauchansaugsystem TITANUS RACK·SENS® 1HE ' Edition 03/09 or of the projection software TF-SC-1 of the manufacturer shall be regarded.

Technical data:

Current consumption at 24 V DC, without additional modules:

- Initial current: max. 190 mA (standard fan voltage 9.0 V)
- Current consumption quiesc.: max. 160 mA (standard fan voltage 9.0 V)
- Current consumption alarm: max. 205 mA (standard fan voltage 9.0 V)

Additional current consumption:

- Current consumption bargraph and pre-alarm, alarm max. 70 mA
- Current consumption 2. detector, quiesc.: max. 10 mA
- Current consumption 2. detector, alarm: max. 15 mA
- Current consumption switch-off module, quiesc.: max. 10 mA
- Current consumption switch-off module, alarm: max. 50 mA

Contact rating of alarm and fault relay: 30 V, 1 A
Switching capacity: max. 24 W

To Certificate of Approval No.: G 206004

Date 07.08.2009

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

TITANUS RACK·SENS® 2HE

The following limit values must be observed for adjustment of the airflow monitoring system depending on the size of the pipework:

Allowable as a limit value for the threshold of a fault signal are 20% of the total airflow per pipework. This fault shall be detected within 300s.

The projection instructions according to the technical manual 'Rauchansaugsystem TITANUS RACK·SENS® 2HE ' Edition 03/09 or of the projection software TF-SC-1 of the manufacturer shall be regarded.

Technical data:

Current consumption at 24 V DC, without additional modules:

- Initial current: max. 300 mA (standard fan voltage 9.0 V)
- Current consumption quiesc.: max. 160 mA (standard fan voltage 9.0 V)
- Current consumption alarm: max. 270 mA (standard fan voltage 9.0 V)

Additional current consumption:

- Current consumption bargraph and pre-alarm, alarm max. 70 mA
- Current consumption 2. detector, quiesc.: max. 10 mA
- Current consumption 2. detector, alarm: max. 15 mA
- Current consumption switch-off module, alarm: max. 27 mA
- Current consumption extinguishing module, quiesc.: max. 10 mA
- Current consumption extinguishing module, alarm: max. 15 mA
- Current consumption extinguishing fan, alarm: max. 250 mA

Contact rating of alarm and fault relay:
Switching capacity:

30 V, 1 A
max. 24 W