



Certificate

of Approval of Components and Systems

Holder of the Approval:

Honeywell Life Safety Austria GmbH
Lemböckgasse 49
AT-1230 Wien

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.

<i>Approval No.:</i>	<i>No. of pages:</i>	<i>Valid from:</i>	<i>Valid to:</i>
G 210122	39	23.12.2010	22.12.2014

Subject matter of the Approval:

**Voice Alarm Control and Indicating Equipment
Type VARIODYN D1**

Use:

in Automatic Fire Detection and Fire Alarm Systems

Basis for approval:

DIN EN 54-16:2008-06 - Voice Alarm Control and Indicating Equipment

DIN EN 54-4:1997-12 + A1:2003-03 + A2:2007-01 - Power Supply Equipment

VdS 2541:1996-12 - Power Supply Equipment

VdS 2344:2005-12 - Procedure Guidelines

Köln (Cologne), 23.12.2010


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 (DAiTech)" as a certification body for the areas of fire protection and security



DAT-ZE 005/92

To Certificate of Approval No. G 210122

Date 23.12.2010

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)
Digital Fire Brigade Microphone DCSF1	583304.21		
Digital Fire Brigade Microphone DCSF12	583303.21		
Digital Fire Brigade Microphone DCSF7	583305.21		
TWI-RS232 Adapter	583386.21		
VCM Indication/Control Module	583351		
EMV Protection Module UIM	583332		
EOL Module	583496		
Floor Cabinet with Swing Gate 24 HE (Depth 800 mm)	584900		
Floor Cabinet with Swing Gate 40 HE (Depth 800 mm)	584901		
Floor Cabinet with Swing Gate 24 HE (Depth 600 mm)	584902		
Floor Cabinet with Swing Gate 40 HE (Depth 600 mm)	584903		
Floor Cabinet 26 HE (Depth 800 mm)	584910		
Floor Cabinet 42 HE (Depth 800 mm)	584911		
Ventilator Box	584932		

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The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
VdS Test Report No. BMA 10144 dated 15.12.2010 VdS Test Report No. UCE 2010/0093 dated 07.10.2010 VdS Software Test Report No. SW-2008230 dated 08.12.2010			
VARIODYN D1:			
Bedienungsanleitung VARIODYN D1	798662	02.2010	24
Operating Instructions VARIODYN D1	798662.GB0	02.2010	24
Installationsanleitung VARIODYN D1	798663	06.2010	56
Installation Instructions VARIODYN D1	798663.GB0	06.2010	56
Inbetriebnahmeanleitung VARIODYN D1	798664	02.2010	117
Commissioning instructions VARIODYN D1	798664.GB0	02.2010	116
Informationsblatt/ Information sheet VARIODYN D1	798680	09.2010	1



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Type of document	Manufacturer's identification	Date	Number of Pages
DOM 4-8 VARIODYN D1 Parts List Variodyn D1 DOM 4-8	583361.22, Index 03	22.03.2010	1
Parts List Variodyn D1 DOM 4-8	AVD-G11-Z361-01, Index 06	04.03.2010	4
Parts List for AVD-G11-K361-03-04	AVD-G11-I361-03-04, Index 04	11.12.2008	3
Parts List for AVD-G11-K362-04-04	AVD-G11-I361-04-04, Index 04	07.06.2009	1
Parts List for AVD-G11-K361-04-04-HF1	AVD-G11-I361-04-04-HF1, Index 04	28.01.2010	1
Parts List for AVD-G11-K362-01-04	AVD-G11-I362-01-04, Index 04	02.02.2010	6
Parts List for AVD-G11-K362-02-04	AVD-G11-I362-02-04, Index 04	03.08.2008	4
Parts List for AVD-G11-K362-05-03	AVD-G11-I362-05-03, Index 03	15.12.2009	2
Parts List for AVD-G11-K362-06-01	AVD-G11-I362-06-01, Index 01	17.02.2010	1
Circuit Diagram Variodyn D1 – 100V PCB DOM4-8	AVD-G11-K361-03-04, Index 01	19.11.2008	12
Component Plan Diagram AVD-G11-K361-03-04	AVD-G11-K361-03-04, Index 04	11.12.2008	2



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Type of document	Manufacturer's identification	Date	Number of Pages
Component Plan Diagram AVD-G11-K361-03-04 (Earthing Point)	AVD-G11-K361-03-04, Index 04	11.12.2008	1
Circuit Diagram Variodyn D1 – Display PCB DOM4-8 / 4-24	AVD-G11-K361-04-04, Index 2.0	02.06.2009	11
Component Plan Diagram AVD-G11-K362-04-04	AVD-G11-K361-04-04, Index 04	07.06.2009	3
Circuit Diagram Variodyn D1 – MPU	AVD-G11-K362-01-04, Index 5.0	19.07.2008	7
Component Plan Diagram AVD-G11-K362-01-04	AVD-G11-K362-01-04, Index 04	20.07.2008	2
Circuit Diagram Variodyn D1	AVD-G11-K362-02-04, Index 1.0	03.08.2008	11
Component Plan Diagram AVD-G11-K362-02-04	AVD-G11-K362-02-04, Index 04	03.08.2008	2
Circuit Diagram Variodyn D1 – DOM Digital Output Module	AVD-G11-K362-05-03, Index 1.0	15.12.2009	1
Component Plan Diagram AVD-G11-K362-05-03	AVD-G11-K362-05-03, Index 030	17.02.2010	2
Circuit Diagram Variodyn D1 DOM/SCU Filter	AVD-G11-K362-06-01, Index 1.0	11.02.2010	1
Component Plan Diagram AVD-G11-K362-06-01	AVD-G11-K362-06-01, Index 01	17.02.2010	1



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Type of document	Manufacturer's identification	Date	Number of Pages
DOM 4-8 VARIODYN D1 Mechanics			
Mechanical Drawing DOM Fan with Cable	AVD-G11-B362-01-01, Index 1.0	18.02.2010	1
Mechanical Drawing DOM Fan with Cable	AVD-G11-B362-02-01, Index 1.0	18.02.2010	1
Mechanical Drawing Variodyn D1 DOM 4x8 Housing Bottom Part	AVD-G11-C361-01, Index 08	11.01.2010	1
Mechanical Drawing Variodyn D1 DOM 4-8 Front	AVD-G11-C361-02, Index 04	17.04.2009	1
Mechanical Drawing Variodyn D1 DOM 4-24 Cover	AVD-G11-C362-02, Index 05	05.06.2009	1
Mechanical Drawing DOM Cable Power Pack	AVD-G11-C362-04-05, Index 1.0	23.04.2010	1
Mechanical Drawing DOM Cable Power Pack - Processor Board	AVD-G11-C362-05-04, Index 1.0	16.02.2010	1
Mechanical Drawing Variodyn D1 DOM 4-24 Isolation Foil	AVD-G11-C362-08, Index 08	01.02.2010	1
Mechanical Drawing Variodyn D1 DOM 4-24 Isolation Foil Cover	AVD-G11-C362-10, Index 03	02.03.2010	1
Mechanical Drawing DOM Earthing Cable	AVD-G11-C362-11-01, Index 1.0	04.03.2010	1



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Type of document	Manufacturer's identification	Date	Number of Pages
Mechanical Drawing Variodyn D1 DOM 4-8 Housing Bottom Part Silk Screen	AVD-G11-X361-01, Index 05	01.02.2010	1
Mechanical Drawing Variodyn D1 DOM 4-8 Front Silk Screen	AVD-G11-X361-02, Index 03	04.03.2010	1
Mechanical Drawing Variodyn D1 DOM 4-8 Front Silk Screen	AVD-G11-X361-20, Index 02	04.03.2010	1
Mechanical Drawing Variodyn D1 DOM 4-8 Front Silk Screen	AVD-G11-X361-21, Index 02	04.03.2010	1
Mechanical Drawing Variodyn D1 DOM 4-8 Front Silk Screen	AVD-G11-X361-22, Index 02	04.03.2010	1
Mechanical Drawing Variodyn D1 DOM 4-24 Housing Cover Silk Screen	AVD-G11-X362-03, Index 02	05.06.2009	1

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Type of document	Manufacturer's identification	Date	Number of Pages
DOM 4-24 VARIODYN D1 Parts List Variodyn D1 DOM 4-24	583362.22	22.03.2010	1
Parts List Variodyn D1 DOM 4-24	AVD-G11-Z362-01, Index 03	04.03.2010	4
Parts List for AVD-G11-K362-01-04	AVD-G11-I362-01-04, Index 06	02.02.2010	6
Parts List for AVD-G11-K362-02-04	AVD-G11-I362-02-04, Index 04	03.08.2008	4
Parts List for AVD-G11-K362-03-04	AVD-G11-I362-03-04, Index 04	18.01.2007	8
Parts List for AVD-G11-K362-04-04	AVD-G11-I362-04-04, Index 04	07.06.2009	1
Parts List for AVD-G11-K362-04-04-HF1	AVD-G11-I362-04-04-HF1, Index 04	28.01.2010	1
Parts List for AVD-G11-K362-05-03	AVD-G11-I362-05-03, Index 03	15.12.2009	2
Parts List for AVD-G11-K362-06-01	AVD-G11-I362-06-01, Index 01	17.02.2010	1
Circuit Diagram Variodyn D1 – MPU	AVD-G11-K362-01-04, Index 5.0	19.07.2008	7
Component Plan Diagram AVD-G11-K362-01-04	AVD-G11-K362-01-04, Index 04	20.07.2008	2

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Type of document	Manufacturer's identification	Date	Number of Pages
Circuit Diagram Variodyn D1	AVD-G11-K362-02-04, Index 1.0	03.08.2008	11
Component Plan Diagram AVD-G11-K362-02-04	AVD-G11-K362-02-04, Index 04	03.08.2008	2
Circuit Diagram Variodyn D1 – 100V PCB DOM4-24	AVD-G11-K362-03-04, Index 01	20.07.2006	39
Component Plan Diagram AVD-G11-K362-03-04	AVD-G11-K362-03-04, Index 04	18.01.2007	2
Component Plan Diagram AVD-G11-K362-03-04 (Earthing Point)	AVD-G11-K362-03-04, Index 04	18.01.2007	1
Circuit Diagram Variodyn D1 – Display PCB DOM4-8 / 4-24	AVD-G11-K362-04-04, Index 2.0	02.06.2009	11
Component Plan Diagram AVD-G11-K362-04-04	AVD-G11-K362-04-04, Index 04	07.01.2009	3
Circuit Diagram Variodyn D1 – DOM Digital Output Module 24V-Power Pack	AVD-G11-K362-05-03, Index 1.0	15.12.2009	1
Component Plan Diagram AVD-G11-K362-05-03	AVD-G11-K362-05-03, Index 03	17.02.2010	2
Circuit Diagram Variodyn D1 DOM/SCU Filter	AVD-G11-K362-06-01, Index 1.0	11.02.2010	1
Component Plan Diagram AVD-G11-K362-06-01	AVD-G11-K362-06-01, Index 01	17.02.2010	1

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Type of document	Manufacturer's identification	Date	Number of Pages
Component Plan Diagram AVD-G11-K362-07-01 DOM 4-24 VARIODYN D1 Mechanics	AVD-G11-K362-07-01, Index 01	17.06.2010	1
Mechanical Drawing DOM Fan with Cable	AVD-G11-B362-01-01, Index 1.0	18.02.2010	1
Mechanical Drawing DOM Fan with Cable	AVD-G11-B362-02-01, Index 1.0	18.02.2010	1
Mechanical Drawing Variodyn D1 DOM 4-24 Housing Bottom Part	AVD-G11-C362-01, Index 11	22.12.2009	1
Mechanical Drawing Variodyn D1 DOM 4-24 Cover	AVD-G11-C362-02, Index 05	05.06.2009	1
Mechanical Drawing Variodyn D1 DOM 4-24 Front	AVD-G11-C362-03, Index 04	17.04.2009	1
Mechanical Drawing DOM Cable Power Pack	AVD-G11-C362-04-05, Index 1.0	23.04.2010	1
Mechanical Drawing DOM Cable Power Pack - Processor Board	AVD-G11-C362-05-04, Index 1.0	16.02.2010	1
Mechanical Drawing Variodyn D1 DOM 4-24 Isolation Foil	AVD-G11-C362-08, Index 08	01.02.2010	1
Mechanical Drawing Variodyn D1 DOM 4-24 Isolation Foil Cover	AVD-G11-C362-10, Index 03	02.03.2010	1



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Type of document	Manufacturer's identification	Date	Number of Pages
Mechanical Drawing DOM Earthing Cable	AVD-G11-C362-11-01, Index 1.0	04.03.2010	1
Mechanical Drawing Variodyn D1 DOM 4-24 Housing Bottom Part Silk Screen	AVD-G11-X362-01, Index 05	01.02.2010	1
Mechanical Drawing Variodyn D1 DOM 4-24 Front Silk Screen	AVD-G11-X362-02, Index 03	17.02.2010	1
Mechanical Drawing Variodyn D1 DOM 4-24 Housing Cover Silk Screen	AVD-G11-X362-03, Index 02	05.06.2009	1
Mechanical Drawing Variodyn D1 DOM 4-24 Front Silk Screen	AVD-G11-X362-20, Index 02	17.02.2010	1
Mechanical Drawing Variodyn D1 DOM 4-24 Front Silk Screen	AVD-G11-X362-21, Index 02	17.02.2010	1
Mechanical Drawing Variodyn D1 DOM 4-24 Front Silk Screen	AVD-G11-X362-22, Index 02	17.02.2010	1

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Type of document	Manufacturer's identification	Date	Number of Pages
UIM VARIODYN D1 Parts List Variodyn D1 UIM	583331.21.ES, Index 01	12.09.2008	1
Parts List Variodyn D1 UIM	AVD-G11-Z331-00, Index 03	12.09.2008	1
Parts List for AVD-G11-K331-01-04	AVD-G11-I331-01-04, Index 04	31.05.2007	9
Parts List for AVD-G11-K331-02-04	AVD-G11-I331-02-04, Index 04	17.09.2008	1
Circuit Diagram Variodyn D1 – UM Universal Interface Module	AVD-G11-K331-01-04, Index 1.0	15.05.2007	9
Component Plan Diagram AVD-G11-K331-01-04	AVD-G11-K331-01-04, Index 04	31.05.2007	2
Circuit Diagram UM Universal Interface Module	AVD-G11-K331-02-04, Index 1.0	17.09.2008	1
Component Plan Diagram AVD-G11-K331-02-04	AVD-G11-K331-02-04 , Index 04	20.09.2008	1
UIM VARIODYN D1 Mechanics Mechanical Drawing Variodyn D1 UIM Housing Bottom Part	AVD-G11-C331-01, Index 01	05.11.2003	1
Mechanical Drawing Variodyn D1 UIM Cover	AVD-G11-C331-02, Index 01	05.11.2003	1

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Type of document	Manufacturer's identification	Date	Number of Pages
Mechanical Drawing Variodyn D1 UIM Front Plate	AVD-G11-C331-03, Index 01	05.11.2003	1
Mechanical Drawing Variodyn D1 UIM Label	AVD-G11-C331-04, Index 02	17.09.2008	1
Mechanical Drawing Variodyn D1 UIM Bottom Part Silk Screen	AVD-G11-X331-01, Index 01	05.11.2003	1
Mechanical Drawing Variodyn D1 UIM Front Silk Screen MSU VARIODYN D1	AVD-G11-X331-02, Index 02	10.09.2006	1
Parts List Variodyn D1 MSU	583371.21.ES,Index 01	12.09.2008	1
Parts List Variodyn D1 Mains Switching Unit MSU	AVD-G11-Z371-01,Index 03	24.09.2008	2
Parts List for AVD-G11-K371-01-02	AVD-G11-P371-01-02, Index 02	08.05.2006	1
Circuit Diagram Variodyn D1 - MSU	AVD-G11-P371-01-02, Index 1.0	05.05.2006	1
Component Plan Diagram AVD-G11-K371-01-02 MSU VARIODYN D1 Mechanics	AVD-G11-P371-01-02, Index 02	08.05.2006	1
Mechanical Drawing Variodyn D1 MSU Housing Bottom Part	AVD-G11-C371-01, Index 01	22.10.2003	1

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Type of document	Manufacturer's identification	Date	Number of Pages
Mechanical Drawing Variodyn D1 Cover	AVD-G11-C371-02, Index 01	22.10.2003	1
Mechanical Drawing Variodyn D1 MSU Front	AVD-G11-C371-03, Index 01	22.10.2003	1
Mechanical Drawing Variodyn D1 MSU Wire 2,5 for internal Net	AVD-G11-C371-04, Index 01	22.10.2003	1
Mechanical Drawing Variodyn D1 MSU Wire 1,0 for Contacts	AVD-G11-C371-05, Index 01	18.08.2003	1
Mechanical Drawing Variodyn D1 MSU Wire 2,5 for Earthing	AVD-G11-C371-06, Index 01	22.10.2003	1
Mechanical Drawing Variodyn D1 MSU Isolation Foil	AVD-G11-C371-07, Index 01	22.10.2003	1
Mechanical Drawing Variodyn D1 MSU Network Cable	AVD-G11-C371-08, Index 01	22.10.2003	1
Mechanical Drawing Variodyn D1 MSU Label	AVD-G11-C371-09, Index 02	17.09.2008	1
Mechanical Drawing Variodyn D1 MSU Bottom Part Silk Screen	AVD-G11-X371-01, Index 01	22.10.2003	1
Mechanical Drawing Variodyn D1 MSU Front Silk Screen	AVD-G11-X371-02, Index 02	10.09.2008	1
Mechanical Drawing Variodyn D1 MSU Switch Cover	583372	15.12.2010	1

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Type of document	Manufacturer's identification	Date	Number of Pages
SCU VARIODYN D1 Parts List Variodyn D1 SCU 1	583381.22, Index 02	22.01.2010	1
Parts List Variodyn D1 SCU 1	AVD-G11-Z381-01, Index 08	16.08.2010	3
Parts List for AVD-G11-K362-06-01	AVD-G11-I362-06-01, Index 01	17.02.2010	1
Parts List for AVD-G11-K381-01-01	AVD-G11-I381-01-01, Index 01	14.08.2007	1
Parts List for AVD-G11-K381-02-01	AVD-G11-I381-02-01, Index 01	17.02.2010	1
Circuit Diagram Variodyn D1 DOM/SCU Filter	AVD-G11-K362-06-01, Index 1.0	11.02.2010	1
Component Plan Diagram AVD-G11-K362-06-01	AVD-G11-K362-06-01, Index 01	17.02.2010	1
Circuit Diagram Variodyn D1 SCU LEDS	AVD-G11-K381-01-01, Index 1.0	27.07.2007	1
Component Plan Diagram AVD-G11-K381-01-01	AVD-G11-K381-01-01, Index 01	09.01.2008	2
Circuit Diagram Variodyn D1 SCU 24V Switching	AVD-G11-K381-02-01, Index 1.0	25.01.2010	1
Component Plan Diagram AVD-G11-K381-02-01	AVD-G11-K381-02-01, Index 01	17.02.2010	1

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Type of document	Manufacturer's identification	Date	Number of Pages
SCU VARIODYN D1 Mechanics			
Mechanical Drawing SCU Fan with Cable	AVD-G11-B381-01-01, Index 1.0	18.02.2010	1
Mechanical Drawing SCU Fan with Cable	AVD-G11-B381-02-01, Index 1.0	18.02.2010	1
Mechanical Drawing Variodyn D1 SCU Housing Bottom Part	AVD-G11-C381-01, Index 09	22.12.2009*	1
Mechanical Drawing Variodyn D1 SCU Cover	AVD-G11-C381-02, Index 06	11.02.2010	1
Mechanical Drawing Variodyn D1 SCU Front	AVD-G11-C381-03, Index 03	17.04.2009	1
Mechanical Drawing Variodyn D1 SCU Aperture	AVD-G11-C381-04, Index 05	08.09.2009	1
Mechanical Drawing Variodyn D1 SCU HDD-Mounting Angle	AVD-G11-C381-05, Index 01	26.03.2004	1
Mechanical Drawing Variodyn D1 SCU Isolation Foil	AVD-G11-C381-06, Index 01	26.03.2004	1
Mechanical Drawing Variodyn D1 Cable Tree SCU-1	AVD-G11-C381-09, Index 02	18.02.2010	1
Mechanical Drawing SCU Earthing Cable	AVD-G11-C381-10-02, Index 1.0	08.02.2010	1
Mechanical Drawing Variodyn D1 SCU Isolation Foil 24 V Power Pack	AVD-G11-C381-11, Index 01	01.10.2009	1

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Type of document	Manufacturer's identification	Date	Number of Pages
Mechanical Drawing DOM Cable Power Pack 24 V	AVD-G11-C381-12-01, Index 1.0	09.02.2010	1
Mechanical Drawing SCU Cable Power Pack 24 V	AVD-G11-C381-13-01, Index 1.0	08.07.2009	1
Mechanical Drawing SCU Earthing Cable	AVD-G11-C381-14-01, Index 1.0	09.02.2010	1
Mechanical Drawing SCU Earthing Cable Power Pack	AVD-G11-C381-15-01, Index 1.0	11.02.2010	1
Mechanical Drawing Variodyn D1 SCU Isolation Foil Safety Print	AVD-G11-C381-17, Index 01	21.01.2009	1
Mechanical Drawing SCU Adhesive Foil ATX-Power Pack	AVD-G11-C381-18-01, Index 1.0	10.02.2010	1
Mechanical Drawing Variodyn D1 SCU Aperture Silk Screen	AVD-G11-X381-01, Index 03	16.09.2009	1
Mechanical Drawing Variodyn D1 SCU Front Silk Screen	AVD-G11-X381-02, Index 03	03.12.2008	1
Mechanical Drawing Variodyn D1 SCU Housing Bottom Part Silk Screen	AVD-G11-X381-03, Index 01	08.02.010	1
Amplifier 2XD250 Parts List Amplifier 2 x 250 W Class D	580231	31.12.2009	9

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The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
Parts List PCB Assy 2CH 250W EMEA Amplifier	2435-002	31.07.2009	4
Parts List PCB Assy 2CH 250W EMEA Backplane	2435-004	31.07.2009	4
Parts List PCB Assy 2CH 400W EMEA LED	2435-006	31.08.2009	1
Parts List PCB Assy 2CH EMEA Amplifier output	2435-015	31.08.2009	1
Circuit Diagram for EMEA Amplifier	5905, Index C	14.12.2009	4
Component Plan Diagram for EMEA Amplifier PCB	5906, Index C	14.12.2009	1
Circuit Diagram EMEA VA Amplifier Backplane PCB	5907, Index C	19.11.2009	12
Component Plan Diagram for EMEA VA Amplifier Backplane PCB	5908, Index C	24.11.2009	1
Circuit Diagram for 2 channel EMEA LED PCB	5909, Index B	18.08.2009	1
Component Plan Diagram for EMEA amplifier LED PCB	5910, Index A	21.08.2009	1
Circuit Diagram for 2CH EMEA output PCB	5932, Index C	12.11.2009	1

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Type of document	Manufacturer's identification	Date	Number of Pages
Component Plan Diagram for EMEA Amplifier output PCB	5933, Index B	12.11.2009	1
Tracking Layout Diagram 4269-627_03	4269-627	02.02.2010	11
Tracking Layout Diagram 4269-628_03	4269-628	03.02.2010	10
Tracking Layout Diagram 4269-629_02	4269-629	03.02.2010	8
Tracking Layout Diagram 4269-630_03	4269-630	03.02.2010	8
Amplifier 2XD250, Mechanics			
Mechanical Drawing EMEA PSU Carrier	4043-111, Index B	07.07.2009	1
Mechanical Drawing EMEA Rear Baffle Lambda	4043-113, Index B	03.07.2009	1
Mechanical Drawing Lead – Black 115mm	4049-155, Index A	17.08.2006	1
Mechanical Drawing EMEA Mains Harness	4049-171, Index C	16.11.2009	1
Mechanical Drawing EMEA Ribbon Cable Harness	4049-172, Index B	13.11.2009	1
Mechanical Drawing EMEA PSU Harness	4049-173, Index C	02.12.2009	1
Mechanical Drawing EMEA Chassis	4062-106, Index J	22.01.2010	9

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Type of document	Manufacturer's identification	Date	Number of Pages
Mechanical Drawing EMEA Cover	4094-524, Index D	22.01.2009	1
Mechanical Drawing Warning Label	4199-224, Index B	14.02.1989	1
Mechanical Drawing EMEA 250W Transformer	4405-098, Index E	27.10.2009	1
Mechanical Drawing EMEA Cooling Fan	8229-053, Index D	14.10.2009	1
Mechanical Drawing for EMEA Amplifier 4269-627	5914, Index C	07.12.2009	1
Mechanical Drawing EMEA Amplifier Backplane 4269-628	5917, Index C	07.12.2009	1
Mechanical Drawing for EMEA VA Amplifier LED PCB	5920, Index A	01.05.2009	1
Mechanical Drawing EMEA Amplifier output PCB Amplifier 2XD400	5921, Index B	12.11.2009	1
Parts List Amplifier 2 x 400 W Class D	580232	31.12.2009	2
Parts List Connector Pack 2XD250/400	583320	31.12.2009	1

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The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
Parts List PCB Assy 2CH 400W EMEA Amplifier	2435-003	10.05.2010	4
Parts List PCB Assy 2CH 400W EMEA Backplane	2435-005	04.12.2009	5
Parts List PCB Assy 2CH 400W EMEA LED	2435-006	31.08.2009	1
Parts List PCB Assy 2CH 400W EMEA Amplifier output	2435-015	31.08.2009	1
Circuit Diagram for 2Ch EMEA output PCB	5932, Index C	12.11.2009	1
Component Plan Diagram for EMEA amplifier output PCB	5933, Index B	12.11.2009	1
Circuit Diagram for EMEA amplifier	5955, Index B	11.05.2010	4
Component Plan Diagram for EMEA amplifier amplifier PCB	5956, Index B	11.05.2010	1
Circuit Diagram EMEA VA amplifier backplane PCB Control Processor	5907, Index D	17.03.2010	12
Component Plan Diagram EMEA VA amplifier backplane PCB	5908, Index D	16.03.2010	1
Circuit Diagram 2 channel EMEA LED PCB	5909, Index B	18.08.2009	1

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Type of document	Manufacturer's identification	Date	Number of Pages
Component Plan Diagram EMEA VA Amplifier LED PCB Amplifier 2XD400 Mechanics	5910, Index A	21.08.2009	1
Mechanical Drawing EMEA 400W Transformer	4405-099, Index 04	19.08.2010	1
Mechanical Drawing EMEA Amplifier Output PCB 4269-630	5921, Index B	12.11.2009	1
Mechanical Drawing for EMEA 400W Amplifier 4269-637	5961, Index A	06.01.2010	1
Mechanical Drawing EMEA Amplifier Backplane 4269-628	5917, Index C	07.12.2009	2
LWL Converter OIM			
Parts List Variodyn D1 LWL Converter OIM in Cabinet	583316.21.ES, Index 01	19.09.2008	1
Parts List for AVD-G01-K316-01-01	AVD-G01-I316-01-01, Index 01	30.09.2007	1
Circuit Diagram Variodyn D1 DAL_LWL	AVD-G01-L316-01, Index 1.0	21.06.2007	1
Component Plan Diagram AVD-G01-K316-01-01 LWL Converter OIM Mechanics	AVD-G01-L316-01-01, Index 01	30.09.2007	1

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Type of document	Manufacturer's identification	Date	Number of Pages
Mechanical Drawing Variodyn 3000 DAL LWL Converter - Label	583316.21.ES	19.09.2008	1
Mechanical Drawing Variodyn 3000 DAL LWL Converter LWL Converter DCS	AVD-G01-C316-01-01, Index 1.0	29.09.2007	1
Parts List Variodyn D1 LWL Converter DCS-O	583317.21.ES, Index 01	19.09.2008	1
Parts List for AVD-G01-K316-01-01	AVD-G01-I317-01-01, Index 01	30.09.2007	1
Circuit Diagram Variodyn D1 DAL_LWL	AVD-G01-L317-01, Index 01	21.06.2007	1
Component Plan Diagram AVD-G01-K316-01-01 LWL Converter DCS Mechanics	AVD-G01-L317-01-01, Index 01	30.09.2007	1
Mechanical Drawing Variodyn 3000 LWL Converter DCS- O - Label	583317.21.ES	19.09.2008	1
Mechanical Drawing Variodyn 3000 DAL LWL Converter Time Control Module	AVD-G01-C317-01-01, Index 1.0	29.09.2007	1
Parts List Variodyn D1 Time Control Module GPS	583387.21.ES, Index 01	22.09.2008	1

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Type of document	Manufacturer's identification	Date	Number of Pages
Mechanical Drawing Variodyn D1 Time Control Module GPS Label CIM Module	583387.21.ES-Label-rev0	22.09.2008	1
Parts List Variodyn D1 CIM Digital Microphone DCS2 Variodyn D1	583341.21, Index 01	12.10.2009	1
Parts List Key Module DKM 18	583302.23, Index 01	19.01.2010	1
Parts List Digital Microphone DCS 2	AVD-G11-Z302-01, Index 03	21.01.2010	1
Parts List for AVD-G11-K301-01-05	AVD-G11-I302-01-05, Index 05	15.01.2010	3
Circuit Diagram Variodyn D1 – DCS Digital Microphone	AVD-G11-K302-01-05, Index 1.0	14.01.2010	6
Component Plan Diagram AVD-G11-K301-01-05	AVD-G11-K302-01-05, Index 05	15.01.2010	3
Digital Microphone DCS2, Variodyn D1 Mechanics			
Mechanical Drawing Digital Microphone DCS 120 Rubber Base	AVD-G01-C301-05, Index 02	26.03.2002	1
Mechanical Drawing Digital Microphone DCS 12 Loudspeaker Protective Grid	AVD-G01-C301-06, Index 01	26.03.2002	1

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Type of document	Manufacturer's identification	Date	Number of Pages
Mechanical Drawing Digital Microphone DCS 12 Mounting Angle	AVD-G01-C301-07, Index 02	06.06.2002	1
Parts List Digital Microphone DCS 15 Earthing Plug Assembly	AVD-G11-B301-02, Index 01	15.10.2009	1
Mechanical Drawing Digital Microphone DCS 15 Earthing Plug Assembly	AVD-G11-B301-02, Index 01	15.10.2009	1
Parts List Digital Microphone DCS 2 Front Plate Assembly	AVD-G11-B302-01, Index 01	30.04.2009	1
Mechanical Drawing Digital Microphone DCS 2 Front Plate Assembly	AVD-G11-B302-01, Index 01	11.05.2009	1
Parts List Digital Microphone DCS 2 Housing Assembly	AVD-G11-B302-02, Index 01	18.01.2010	1
Mechanical Drawing Variodyn D1 DCS 2 Housing Assembly	AVD-G11-B302-02, Index 01	18.01.2010	1
Mechanical Drawing Variodyn D1 DCS Earthing Cable	AVD-G11-C301-03-01, Index 1.0	01.11.2008	1
Mechanical Drawing Digital Microphone DCS 15 Side Part	AVD-G11-C301-05, Index 01	14.01.2009	1

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Type of document	Manufacturer's identification	Date	Number of Pages
Mechanical Drawing Digital Microphone DCS 2 Housing Bottom Part	AVD-G11-C302-02, Index 01	28.04.2009	1
Mechanical Drawing Digital Microphone DCS 2 Front Plate	AVD-G11-C302-03, Index 01	14.01.2009	1
Digital Microphone DCS15, Variodyn D1			
Parts List Variodyn D1 DCS 15	583301.23, Index 03	15.01.2010	1
Parts List Variodyn D1 Digital Microphone DCS 15	AVD-G11-Z301-01, Index 03	15.01.2010	1
Parts List for AVD-G11-K301-01-05	AVD-G11-l301-01-05, Index 05	15.01.2010	3
Circuit Diagram Variodyn D1 – DCS Digital Microphone	AVD-G11-K301-01-05, Index 1.0	14.01.2010	6
Component Plan Diagram AVD-G11-K301-01-05	AVD-G11-K301-01-05, Index 05	15.01.2010	3
Digital Microphone DCS15, Variodyn D1 Mechanics			
Mechanical Drawing Digital Microphone DCS 120 Rubber Base	AVD-G01-C301-05, Index 02	26.03.2002	1

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Type of document	Manufacturer's identification	Date	Number of Pages
Mechanical Drawing Digital Microphone DCS 12 Loudspeaker Protective Grid	AVD-G01-C301-06, Index 01	26.03.2002	1
Mechanical Drawing Digital Microphone DCS 12 Mounting Angle	AVD-G01-C301-07, Index 02	06.06.2002	1
Parts List Digital Microphone DCS 15 Front Plate Assembly	AVD-G11-B301-01, Index 01	30.04.2009	1
Mechanical Drawing Digital Microphone DCS 15 Front Plate Assembly	AVD-G11-B301-01, Index 01	11.05.2009	1
Parts List Digital Microphone DCS 15 Earthing Plug Assembly	AVD-G11-B301-02, Index 01	15.10.2009	1
Mechanical Drawing Digital Microphone DCS 15 Earthing Plug Assembly	AVD-G11-B301-02, Index 01	15.10.2009	1
Parts List Digital Microphone DCS 15 Housing Assembly	AVD-G11-B301-03, Index 01	19.10.2009	1
Mechanical Drawing Variodyn D1 DCS 15 Housing Assembly	AVD-G11-B301-03, Index 01	19.10.2009	1
Mechanical Drawing Variodyn D1 DCS 15 Housing Bottom Part	AVD-G11-C301-01, Index 02	28.04.2009	1

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Type of document	Manufacturer's identification	Date	Number of Pages
Mechanical Drawing Variodyn D1 DCS Earthing Cable	AVD-G11-C301-03-01, Index 1.0	01.11.2008	1
Mechanical Drawing Digital Microphone DCS 15 Front Plate	AVD-G11-C301-04, Index 01	14.09.2009	1
Mechanical Drawing Digital Microphone DCS 15 Side Part	AVD-G11-C301-05, Index 01	14.01.2009	1
Digital Key Module DKM 18, Variodyn D1			
Parts List Key Module DKM 18	583306.22, Index 01	19.01.2010	1
Parts List Key Module DKM 18	AVD-G11-Z306-00, Index 01	07.05.2009	1
Parts List for AVD-G01-K306-01-04	AVD-G01-I306-01-04, Index 04	12.12.2008	1
Circuit Diagram Variodyn D1 DKM18	AVD-G01-K306-01-04, Index 1.0	12.12.2008	1
Component Plan Diagram AVD-G01-K306-01-04	AVD-G01-K306-01-04, Index 04	12.12.2008	3
Digital Key Module DKM 18, Variodyn D1 Mechanics			
Parts List Key Module DKM 18 Front Plate Assembly	AVD-G01-B306-01; Index 03	06.06.2002	1

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Type of document	Manufacturer's identification	Date	Number of Pages
Mechanical Drawing Key Module DKM 18 Front Plate Assembly	AVD-G01-B306-01 Index 03	06.06.2002	1
Mechanical Drawing Digital Microphone DCS 120 Rubber Base	AVD-G01-C301-05 Index 02	26.03.2002	1
Mechanical Drawing Key Module DKM 18 Joint	AVD-G01-C306-01 Index 01	26.03.2002	1
Mechanical Drawing Key Module DKM 18 Front Plate	AVD-G01-C306-02 Index 02	26.03.2002	1
Mechanical Drawing Key Module DKM 18 Connection Cable	AVD-G01-C306-04 Index 01	14.05.2002	1
Parts List Digital Microphone DCS 15 Earthing Plug Assembly	AVD-G11-B301-02 Index 01	15.10.2009	1
Mechanical Drawing Digital Microphone DCS 15 Earthing Plug Assembly	AVD-G11-B301-02 Index 01	15.10.2009	1
Parts List Digital Microphone DKM 18 Housing Assembly	AVD-G11-B306-02, Index 01	19.10.2009	1
Mechanical Drawing Variodyn D1 DKM 18 Housing Assembly	AVD-G11-B306-02, Index 01	19.10.2009	1

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Type of document	Manufacturer's identification	Date	Number of Pages
Mechanical Drawing Variodyn D1 DCS Earthing Cable	AVD-G11-C301-03-01, Index 1.0	01.11.2008	1
Mechanical Drawing Digital Microphone DCS 15 Side Part	AVD-G11-C301-05, Index 01	14.01.2009	1
Mechanical Drawing Key Module DKM 18 Housing Bottom Part	AVD-G11-C306-03, Index 01	07.05.2009	1
Digitale Fire Brigade Microphone DCSF 1, Variodyn D1			
Parts List Variodyn D1 DCSF 1	583304.22, Index 04	27.01.2010	1
Parts List Digital Microphone Table Installation Kit	583312.22, Index 02	07.05.2009	1
Parts List Variodyn D1 DCSF1	AVD-G11-Z304-0, Index 041	27.01.2010	1
Parts List for AVD-G11-K301-01-05	AVD-G11-I302-01-05, Index 05	15.01.2010	3
Circuit Diagram Variodyn D1 DCS Digital Microphone	AVD-G11-K302-01-05, Index 1.0	14.01.2010	6
Component Plan Diagram AVD-G11-K301-01-05	AVD-G11-K302-01-05, Index 05	15.01.2010	3
Digitale Fire Brigade Microphone DCSF 1, Variodyn D1 Mechanics			

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Type of document	Manufacturer's identification	Date	Number of Pages
Mechanical Drawing Digital Microphone DCS 12 Loudspeaker Protective Grid	AVD-G01-C301-06, Index 01	26.03.2002	1
Mechanical Drawing Digital Microphone DCS 12 Mounting Angle	AVD-G01-C301-07, Index 02	06.06.2002	1
Mechanical Drawing Digital Microphone Table Installation Housing	AVD-G01-C312-01, Index 02	15.01.2009	1
Mechanical Drawing Table Installation Kit Connection Cable RJ12	AVD-G01-C312-02, Index 01	26.11.2002	1
Parts List DCSF 1 Front Plate Assembly	AVD-G11-B304-01, Index 01	11.05.2009	1
Mechanical Drawing Digital Microphone DCSF 1 Front Plate Assembly	AVD-G11-B304-01, Index 01	11.05.2009	1
Mechanical Drawing Variodyn D1 DCS Earthing Cable	AVD-G11-C301-03-01, Index 1.0	01.11.2008	1
Mechanical Drawing Digital Microphone DCSF 1 Front Plate	AVD-G11-C304-01-02, Index 02	14.01.2009	1
Digitale Fire Brigade Microphone DCSF 12, Variodyn D1			
Parts List Variodyn D1 DCSF 12	583303.22, Index 04	27.01.2010	1

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The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
Parts List Variodyn D1 DCSF12	AVD-G11-Z303-01, Index 04	27.01.2010	1
Parts List for AVD-G11-K301-01-05	AVD-G11-I303-01-05, Index 05	15.01.2010	3
Circuit Diagram Variodyn D1 DCS Digital Microphone	AVD-G11-K303-01-05, Index 1.0	14.01.2010	6
Component Plan Diagram AVD-G11-K301-01-05	AVD-G11-K303-01-05, Index 05	15.01.2010	3
Digitale Fire Brigade Microphone DCSF 12, Variodyn D1 Mechanics			
Mechanical Drawing Digital Microphone DCS 12 Loudspeaker Protective Grid	AVD-G01-C301-06, Index 01	26.03.2002	1
Mechanical Drawing Digital Microphone DCS 12 Mounting Angle	AVD-G01-C301-07, Index 02	06.06.2002	1
Mechanical Drawing Digital Microphone Table Installation Housing	AVD-G01-C312-01, Index 02	15.01.2009	1
Mechanical Drawing Table Installation Kit Connection Cable RJ12	AVD-G01-C312-02, Index 01	26.11.2002	1
Parts List DCSF 12 Front Plate Assembly	AVD-G11-B303-01, Index 01	11.05.2009	1

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Type of document	Manufacturer's identification	Date	Number of Pages
Mechanical Drawing Digital Microphone DCSF 12 Front Plate Assembly	AVD-G11-B303-01, Index 01	11.05.2009	1
Mechanical Drawing Variodyn D1 DCS Earthing Cable	AVD-G11-C301-03-01, Index 1.0	01.11.2008	1
Mechanical Drawing Digital Microphone DCSF 12 Front Plate	AVD-G11-C303-01-02, Index 02	14.01.2009	1
Digitale Fire Brigade Microphone DCSF 7, Variodyn D1			
Parts List Variodyn D1 DCSF7	583305.21.ES, Index 04	01.12.2008	1
Parts List Variodyn D1 DCSF 7	AVD-G11-Z305-01, Index 04	01.12.2008	3
Parts List Variodyn D1 DCSF 7 4fold Use	AVD-G11-I305-01, Index 03	25.04.2008	12
Parts List Variodyn D1 DCSF7	AVD-G11-A305, Index 03	26.05.2008	1
Circuit Diagram Variodyn D1 DCSF7 Fire Brigade Microphone	AVD-G11-K305-01-03, Index 1.0	06.11.2007	5
Component Plan Diagram AVD-G11-K305-01-03	AVD-G11-K305-01, Index 03	19.04.2008	2
Digitale Fire Brigade Microphone DCSF 7, Variodyn D1 Mechanics			

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Type of document	Manufacturer's identification	Date	Number of Pages
Mechanical Drawing Variodyn D1 DCSF7 Operating Panel	AVD-G11-C305-01, Index 03	25.04.2008	1
Mechanical Drawing Variodyn D1 DCSF7 Housing	AVD-G11-C305-02, Index 01	15.11.2007	1
Mechanical Drawing Variodyn D1 DCSF 7 Microphone Carrier	AVD-G11-C305-03, Index 03	02.10.2008	1
Mechanical Drawing Cap 19x19	AVD-G11-C305-04, Index 02	25.04.2008	1
Mechanical Drawing Variodyn D1 DCSF 7 Label	AVD-G11-C305-05, Index 01	31.01.2008	1
Mechanical Drawing Variodyn D1 DCSF7 Operating Panel VCM Indication/Control Module	AVD-G11-X305-01, Index 01	15.11.2007	1
Parts List Variodyn D1 PCA Failure Display and Control Module	X8008000/00, Revision AA	12.11.2010	2
Circuit Diagram Variodyn D1 PCA Failure Display and Control Module	X8008000/02, Index 01	04.11.2010	1
Component Plan Diagram Variodyn D1 PCA Failure Display and Control Module	X8008000/03, Index 01	03.11.2010	2
Layout Plan Variodyn D1 PCA Failure Display and Control Module EMV Protective Module UIM	W8008A02/15/16, Index 01	03.11.2010	2

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Type of document	Manufacturer's identification	Date	Number of Pages
Parts List Variodyn D1 EMV-Protective Module UIM	583332/00	01.12.2010	1
Parts List Variodyn D1 PCA EMV-Protective Module UIM	PB5011210/00	01.12.2010	1
Circuit Diagram Variodyn D1 PCA EMV Protective Module UIM	PB5011210.01	01.12.2010	1
Component Plan Diagram Variodyn D1 PCA EMV Protective Module UIM	PB5011210.02	01.12.2010	1
Layout Plan Variodyn D1 PCA Failure Display and Control Module TWI-RS232 Adapter	PB5011210.04/05	01.12.2010	2
Parts List Variodyn D1 I2C-RS232 Adapter	583386.21.ES, Index 01	22.09.2008	1
Parts List for AVD-G11-K386-01-01	AVD-G11-L386-01, Index 01	30.04.2004	2
Circuit Diagram Variodyn D1 – I2C-RS232 Adapter	AVD-G11-P386-01-01, Index 1.0	25.03.2004	1
Component Plan Diagram I2C auf RS232	AVD-G11-P386-01-01, Index 01	30.04.2004	1
Mechanical Drawing Variodyn D1 TWI-RS232 Adapter Label	583386.21.ES, Index 01	19.09.2008	1
Floor Cabinets			
Mechanical Drawing Ventilator Box 24 V for Floor Cabinets	584932	15.12.2010	1

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Type of document	Manufacturer's identification	Date	Number of Pages
Mechanical Drawing Floor Cabinet with Swing Gate 24 HE (Depth 800 mm)	584900	15.12.2010	1
Mechanical Drawing Floor Cabinet with Swing Gate 40 HE (Depth 800 mm)	584901	15.12.2010	1
Mechanical Drawing Floor Cabinet with Swing Gate 24 HE (Depth 600 mm)	584902	15.12.2010	1
Mechanical Drawing Floor Cabinet with Swing Gate 40 HE (Depth 600 mm)	584903	15.12.2010	1
Mechanical Drawing Floor Cabinet 26 HE (Depth 800 mm)	584910	15.12.2010	1
Mechanical Drawing Floor Cabinet 42 HE (Depth 800 mm)	584911	15.12.2010	1
LWL Switch Ethernet Multimode, 583392			
PCB Layout, Top	EPCB007172R-080925	08.11.2010	1
PCB Layout, Bottom	EPCB007153R-1114	08.11.2010	1
Circuit Diagram Top	IFE SERIALS CPU BOARD(CPU ARM7) EPCB007172	25.09.2008	1
Circuit Diagram Top	IFE SERIALS CPU BOARD(MEMORY) EPCB007172	25.09.2008	1

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Type of document	Manufacturer's identification	Date	Number of Pages
Circuit Diagram Bottom	IFE602FW MainBoard 88E6083 EPCB007153	16.11.2007	1
Circuit Diagram Bottom	IFE602FW CONNECTOR	16.11.2007	1
Circuit Diagram Bottom	IFE602FW Fiber	16.11.2007	1
Circuit Diagram Bottom	IFE602FW POWER	16.11.2007	1
Circuit Diagram Bottom	IFE602FW RESET	16.11.2007	1
Circuit Diagram Bottom	IFE602FW UTP	16.11.2007	1
Housing Part	MBAK002724RKOR	23.07.2009	1
Housing Part	MBAK002745RKOR	23.07.2009	1
Housing Part	MCAS004264RKOR	23.07.2009	1
Housing Part	MCAS004528R	23.07.2009	1

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

If emergency microphones are used ethernet cables with protective caps shall be used that can only be opened by means of a tool. The maximum cable length of the ethernet cable shall not exceed 6 meters. If the control and indicating equipment is used with one or more emergency microphone for more than one alarm zone (from safety level 2) the emergency microphones shall be redundant. If a microphone is used as emergency microphone a triple-digit key code shall be used.

The voice alarm control and indicating equipment can be operated decentralised by means of the LWL switch ethernet multimode type 583392 and shall be operated in each cabinet base with at least one DOM, one amplifier and one power supply.

The SCU shall not be used for the filing of voice alarm detections and/or voice alarm signals. These shall be filed within the DOM.

The MSU shall only be operated with the aperture mechanical drawing variodyn D1 MSU switch cover type 583372 (access level 3).

The voice alarm control and indicating equipment comprises the following options according to EN 54/16:

- Sect. 7.3 Audible Warning
- Sect. 7.7.2 Manual reset of the voice alarm condition
- Sect. 8.4 Indication of faults related to voice alarm zones
- Sect. 10 Voice alarm manual control
Note: Indication of loudspeaker groups in disablement condition was not tested, because the disablement condition was not chosen as option with requirements
- Sect. 12 Emergency microphone(s)
- Sect. 13.14 Redundant power amplifiers

Additionally the voice alarm control and indicating equipment provides a standard interface to the control and indicating equipment (interface Annex A according DIN VDE 0833-4:2007-09).