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C e r t i f i c a t e

of
Conformity

No: 10224008/AA/07

Telefication declares that the listed product complies with the Technical standards and specifications as indicated under Annex 2 of this certificate.

Product description: **SW**
Trademark: **Bosch**
Family name: **Praesideo**
Type designation: **Praesideo 4.3**
Hardware / Software version: **N/A / 4.30 - 4.37**
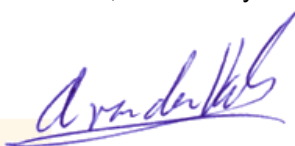Variants: **See Annex 3**

Manufacturer: **Bosch Security Systems B.V.**
Address: **Torenallee 49**
City: **5617 BA EINDHOVEN**
Country: **Netherlands**

This certificate is granted to:

Name: **Bosch Security Systems B.V.**
Address: **Torenallee 49**
City: **5617 BA EINDHOVEN**
Country: **Netherlands**

This certificate has THREE Annexes.

Zevenaar, 26 January 2018

Arnold van der Valk
Product assessor

- The validity of this Certificate is limited to products, which are equal to the one examined.

Remarks and observations

The following conditions are applicable:

The tested configuration of the Praesideo system is representative for comparable combinations of components as identified in annex 3 of this certificate. Each component may be installed multiple times into a Praesideo system. EN 54-16 compliance of the Praesideo system is only achieved if the installer fulfills all installer specific requirements as stated in the EN 54-16 compliance checklist in the installation and user instructions.

Certification of the Praesideo Digital Public Address and Emergency Sound System includes the cabinets (i.e. the enclosed 19" racks) in which the system components are mounted. It is allowed to use one or more cabinets, depending on the size of the Praesideo system. Within the same cabinet family different heights are allowed up to a maximum height that depends on the brand and type of an approved cabinet. The following cabinets have been approved for use with Praesideo:

• Rittal: TS, TS-IT series
• Schroff: 20130073 Praesideo
• E.LAN: Diamond series
• Knürr (Emerson): Miracel series

• The power supply system ZDSO400E-AK3 can consist of: main power supply ZDSO-400-E, additional power supply ZDSOR-400-E, additional power supply ZDSOT-400-E, distribution panel PD-2U-x, battery circuit resistance measurer RMB-1.

Essential Characteristics of EN 54-16: Clauses: Performance:
Performance under fire condition 4, 5, 7, 10, 12, 16.5, 16.6, 16.7 Pass
Response delay (response time to fire) 7.1, 7.8, 12 Pass
7.4 N/A
Operation reliability 4, 5, 6, 7, 8, 11, 12, 13, 14 Pass
9 N/A
Durability of operational reliability
Temperature resistance 16.4, 16.8 Pass
Durability of operational reliability
Impact and vibration resistance 16.11, 16.12, 16.13 Pass
Durability of operational reliability
Electrical stability 16.14, 16.15 Pass
Durability of operational reliability
Humidity resistance 16.9, 16.10 Pass

Implemented optional functions with requirements (per clause of EN 54-16):

7.3 Audible warning
7.6.2 Manual silencing of the voice alarm condition
7.7.2 Manual reset of the voice alarm condition
7.8 Output to fire alarm devices
7.9 Voice alarm condition output
8.3 Indication of faults related to the transmission path to the CIE
8.4 Indication of fault related to voice alarm zones
10 Voice alarm manual control

11 Interface to external control device(s)
12 Emergency microphone(s)
13.14 Redundant power amplifiers

The battery mid-point monitor, model SD08 from Alpha Technologies Ltd., may be used with the PRS-48CH12 battery charger and mounted in the cabinet, but is excluded from certification.

The Cobranet Interface is only EN 54-16 compliant in combination with the Hirschmann Switch RSR20-0800M2M2T1UCCHPHH07.1.01.
The Hirschmann Switch may also be used to connect, within the cabinet, other EN54-16 compliant products as listed in annex 3.

There are five Praesideo systems possible:
* Praesideo 3.5 system based on network controller PRS-NCOB and PRS-SW software version 3.51 - 3.53
* Praesideo 3.6 system based on network controller PRS-NCOB and PRS-SW software version 3.60 - 3.64
* Praesideo 4.0 system based on network controller PRS-NCO3 and PRS-SW software version 4.00 - 4.01
* Praesideo 4.1 system based on network controller PRS-NCO3 and PRS-SW software version 4.10 - 4.11
* Praesideo 4.3 system based on network controller PRS-NCO3 and PRS-SW software version 4.30 - 4.37

For proper operation with the Line Isolator System, consisting of the PM1-LISM6 master unit and slave devices PM1-LISS and PM1-LISD, the multi-channel interface PRS-16MCI must have hardware version HW 04/15 or newer.

Essential Characteristics of EN 54-4: Clauses: Performance:
Performance under fire condition 4, 5, 6 Pass
Operation reliability 4, 5, 6, 7, 8 Pass
Durability of operational reliability
Temperature resistance 9.5 Pass
Durability of operational reliability
vibration resistance 9.7, 9.8, 9.15 Pass
Durability of operational reliability
Electrical stability 9.9 to 9.13 Pass
Durability of operational reliability
Humidity resistance 9.6, 9.14 Pass

Documentation lodged for this Certificate of Conformity

Test Reports:

- Telefication: 20104096803 Rev 1.10, 03 September 2012
- Telefication: 20114721802 Rev.1.00, 03 September 2012
- CNPP: 100070, 23 July 2010
- CNPP: 110019, 17 March 2011
- VdS GmbH: BMA 11111, 12 January 2012
- Telefication: 20124320804 Ver. 1.00, 25 February 2013
- Telefication: 20134648801 Rev. 1.00, 10 April 2014
- Telefication: 20144581801-Ver 1.00, 26 February 2015
- Telefication: 20144581200-Ver 1.00, 08 October 2015
- Telefication: 20154433840 Rev.1.00, 12 November 2015
- Telefication: 20154305200-Ver 1.00, 08 October 2015

Product Documentation:

- Assembly drawings
- Bill of materials
- Electrical diagrams
- Internal photos
- External photos
- Manual

Technical Standards and Specifications

The following standards have been used in full or part:

EN 50130-4	June, 2011
ISO 7240-16	July, 2007
ISO 7240-4	August, 2003

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Technical features and characteristics

The product includes the following features and characteristics:

Voice Alarm Equipment
- 100V loudspeaker outputs

The product as described in this Certificate of Conformity includes the following type designations:

- Product description: SW
- Trademark: Bosch
- Family name: Praesideo
- Type designation: Praesideo 4.3
- Hardware version: N/A
- Software version: 4.30 - 4.37

- Product description: SW
- Trademark: Bosch
- Family name: Praesideo
- Type designation: Praesideo 4.1
- Hardware version: N/A
- Software version: 4.10 - 4.11

- Product description: SW
- Trademark: Bosch
- Family name: Praesideo
- Type designation: Praesideo 4.0
- Hardware version: N/A
- Software version: 4.00 - 4.01

- Product description: SW
- Trademark: Bosch
- Family name: Praesideo
- Type designation: Praesideo 3.6
- Hardware version: N/A
- Software version: 3.60 - 3.64

- Product description: SW
- Trademark: Bosch
- Family name: Praesideo
- Type designation: Praesideo 3.5
- Hardware version: N/A
- Software version: 3.51 - 3.53

- Product description: Installation Software
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-SW
- Hardware version: N/A
- Software version: 3.5 - 4.3

- Product description: Network Controller
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-NCO3
- Hardware version: 30/00 - 30/25
- Software version: 4.0 - 4.3

- Product description: Network Controller
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-NCO-B
- Hardware version: 21/05 - 21/08
- Software version: 3.5 - 3.6

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- Product description: Analog Audio Expander
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-4AEX4
- Hardware version: 20/00 - 20/05
- Software version: 3.61 - 4.3

- Product description: Analog Audio Expander
- Trademark: Bosch
- Family name: Praesideo
- Type designation: LBB4402/00
- Hardware version: 16/15
- Software version: 3.5 - 4.3

- Product description: CobraNet Interface
- Trademark: Bosch
- Family name: Praesideo
- Type designation: LBB4404/00
- Hardware version: 03/10 - 03/20
- Software version: 3.5 - 4.3

- Product description: OMNEO Interface
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-4OMI4
- Hardware version: 01/00
- Software version: 4.3

- Product description: IP-Audio Interface
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-1AIP1
- Hardware version: 02/00 - 02/50
- Software version: 3.5 - 4.3

- Product description: Call Station
- Trademark: Bosch
- Family name: Praesideo
- Type designation: LBB4430/00
- Hardware version: 06/15
- Software version: 3.5 - 4.3

- Product description: Remote Call Station
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-CSR
- Hardware version: 01/15 - 01/30
- Software version: 3.5 - 4.3

- Product description: Call Station Interface
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-CSI
- Hardware version: 01/15 - 01/35
- Software version: 3.5 - 4.3

- Product description: Call Station Keypad

- Trademark: Bosch
- Family name: Praesideo
- Type designation: LBB4432/00
- Hardware version: 01/18 - 01/19
- Software version: 3.5 - 4.3

- Product description: Call Station Numeric Keypad
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-CSNKP
- Hardware version: 01/18
- Software version: 3.5 - 4.3

- Product description: Calll Station Module
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-CSM
- Hardware version: 11/00
- Software version: 3.5 - 4.3

- Product description: Remote Calll Station Module
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-CSRM
- Hardware version: 11/00
- Software version: 3.5 - 4.3

- Product description: Call Station Keypad Module
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-CSKPM
- Hardware version: 11/00
- Software version: 3.5 - 4.3

- Product description: Call Stacker
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-CRF
- Hardware version: 01/10, 06/10 - 06/15
- Software version: 3.5 - 4.3

- Product description: Power Amplifier 1x500W
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-1P500
- Hardware version: 06/05 - 06/25
- Software version: 3.5 - 4.3

- Product description: Power Amplifier 1x500W
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-1P500-EU
- Hardware version: 06/10 - 06/25
- Software version: 3.5 - 4.3

- Product description: Power Amplifier 2x250W
- Trademark: Bosch

- Family name: Praesideo
- Type designation: PRS-2P250
- Hardware version: 06/05 - 06/25
- Software version: 3.5 - 4.3

- Product description: Power Amplifier 2x250W
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-2P250-EU
- Hardware version: 06/10 - 06/25
- Software version: 3.5 - 4.3

- Product description: Power Amplifier 4x125W
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-4P125
- Hardware version: 06/05 - 06/15
- Software version: 3.5 - 4.3

- Product description: Power Amplifier 4x125W
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-4P125-EU
- Hardware version: 06/10 - 06/15
- Software version: 3.5 - 4.3

- Product description: Power Amplifier 8x60W
- Trademark: Bosch
- Family name: Praesideo
- Type designation: LBB4428/00
- Hardware version: 04/05, 05/05, 06/00 - 06/10
- Software version: 3.5 - 4.3

- Product description: Power Amplifier 8x60W
- Trademark: Bosch
- Family name: Praesideo
- Type designation: LBB4428/00-EU
- Hardware version: 05/05, 06/00 - 06/10
- Software version: 3.5 - 4.3

- Product description: Multi-Channel Interface
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-16MCI
- Hardware version: 04/10 - 04/15
- Software version: 3.5 - 4.3

- Product description: Basic Amplifier 1x500W
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-1B500
- Hardware version: 06/05 - 06/20
- Software version: 3.5 - 4.3

- Product description: Basic Amplifier 1x500W
- Trademark: Bosch
- Family name: Praesideo

- Type designation: PRS-1B500-EU
- Hardware version: 06/05 - 06/20
- Software version: 3.5 - 4.3

- Product description: Basic Amplifier 2x250W
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-2B250
- Hardware version: 06/05 - 06/20
- Software version: 3.5 - 4.3

- Product description: Basic Amplifier 2x250W
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-2B250-EU
- Hardware version: 06/05 - 06/20
- Software version: 3.5 - 4.3

- Product description: Basic Amplifier 4x125W
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-4B125
- Hardware version: 06/05, 07/00 - 07/10
- Software version: 3.5 - 4.3

- Product description: Basic Amplifier 4x125W
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-4B125-EU
- Hardware version: 06/05, 07/00 - 07/10
- Software version: 3.5 - 4.3

- Product description: Basic Amplifier 8x60W
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-8B060
- Hardware version: 06/05, 07/00 - 07/10
- Software version: 3.5 - 4.3

- Product description: Basic Amplifier 8x60W
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-8B060-EU
- Hardware version: 06/05, 07/00 - 07/10
- Software version: 3.5 - 4.3

- Product description: Supervision Control Board
- Trademark: Bosch
- Family name: Praesideo
- Type designation: LBB4440/00
- Hardware version: 01/05
- Software version: 3.5 - 4.3

- Product description: Loudspeaker Supervision Board
- Trademark: Bosch
- Family name: Praesideo
- Type designation: LBB4441/00

- Hardware version: 01/05
- Software version: 3.5 - 4.3

- Product description: End-Of-Line Supervision Set
- Trademark: Bosch
- Family name: Praesideo
- Type designation: LBB4442/00
- Hardware version: 01/10
- Software version: 3.5 - 4.3

- Product description: End-Of-Line Supervision Board
- Trademark: Bosch
- Family name: Praesideo
- Type designation: LBB4443/00
- Hardware version: 01/05
- Software version: 3.5 - 4.3

- Product description: Network Splitter
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-NSP
- Hardware version: 03/15 - 03/20
- Software version: 3.5 - 4.3

- Product description: Redundant Controller Switch Master
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PSP-D00039
- Hardware version: 03/15 - 03/20
- Software version: 3.5 - 4.3

- Product description: Redundant Controller Switch Slave
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PSP-D00040
- Hardware version: 03/15 - 03/20
- Software version: 3.5 - 4.3

- Product description: Redundant Controller Switch
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PSP-D00060
- Hardware version: 03/20
- Software version: 3.5 - 4.3

- Product description: Fiber Interface
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-FIN
- Hardware version: 03/15 - 03/20
- Software version: 3.5 - 4.3

- Product description: Non-Addressable Fiber Interface
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-FINNA
- Hardware version: 03/15 - 03/20

- Software version: 3.5 - 4.3

- Product description: Single Mode Fiber Interface
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-FINS
- Hardware version: 03/15 - 03/20
- Software version: 3.5 - 4.3

- Product description: Battery Charger 48V
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-48CH12
- Hardware version: N/A
- Software version: 3.5 - 4.3

- Product description: Battery Charger 48V With Battery
- Trademark: PSD
- Family name: Praesideo
- Type designation: PRS-48CH02-DE
- Hardware version: N/A
- Software version: 3.5 - 4.3

- Product description: Battery Charger 48V With Battery
- Trademark: PSD
- Family name: Praesideo
- Type designation: PRS-48CH05-DE
- Hardware version: N/A
- Software version: 3.5 - 4.3

- Product description: Battery Charger 48V With Battery
- Trademark: PSD
- Family name: Praesideo
- Type designation: PRS-48CH06-DE
- Hardware version: N/A
- Software version: 3.5 - 4.3

- Product description: Battery Charger 48V With Battery
- Trademark: PSD
- Family name: Praesideo
- Type designation: PRS-48CH07-DE
- Hardware version: N/A
- Software version: 3.5 - 4.3

- Product description: PSE With Battery
- Trademark: Merawex
- Family name: Praesideo
- Type designation: ZDSO400E-AK3
- Hardware version: N/A
- Software version: N/A