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C e r t i f i c a t e
of
Conformity

No.: 10224008/AA/05

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

Product description:	**Digital Public Address and Emergency Sound System**
Trademark:	**See annex 3**
Family name:	**Praesideo**
Type designation:	**See annex 3**
Serial No:	**--**
Software release No:	**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, 02 May 2014

W.J.M. Jong
Manager Product Certification

C E

- 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. The installer is responsible for the correct selection of components and ISO 7240-16 compliance of the completely installed system. ISO 7240-16 compliance of the Praesideo system is only achieved if the installer fulfills all installer specific requirements as stated in the EN 54-16 AND ISO 7240-16 compliance checklists 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 TS8 series, with lockable glass door, side panels, temperature controlled top fans and having a fixed frame with a maximum height of 42 HU or a lockable swing frame with a maximum height of 40 HU.
Only batteries as mentioned in the user manuals of the battery chargers are allowed to be used and must be placed on the ground plane of the cabinet, free from the walls.

• 20130073PRAESIDEO Schroff cabinet

• 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.

Implemented optional functions with requirements (per clause of ISO 7240-16):

7.2   Alert signal
7.5   Audible warning
7.8.2   Silencing of the voice-alarm condition with a manual control
7.9.2   Reset of the voice-alarm condition with a manual control
7.10   Output to alarm devices
7.11   Voice-alarm condition output signal
8.2.6.1 Faults related to the transmission path to the emergency detection system
8.2.6.2 Faults related to emergency-loudspeaker zones
11   Manual mode control
11.3   Indication of emergency-loudspeaker zones in the fault-warning condition
12   Interface to external control device(s)
13   Emergency microphone(s)
13.2   Microphone priority
13.3   Microphone emergency-loudspeaker-zone control
14.14   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 ISO 7240-16 compliant in combination with the Hirschmann Switch RSR20-0800M2M2T1UCCHPHH07.1.01.
The Hirschmann Switch may also be used to connect, within the cabinet, other ISO 7240 -16 compliant products as listed in annex 3.

There are four Praesideo systems possible:

* Praesideo 3.5 system based on network controller PRS-NCO-B and PRS-SW software version 3.5x (where x can be 0, 1, 2 or 3)

* Praesideo 3.6 system based on network controller PRS-NCO-B and PRS-SW software version 3.6y (where y can be 0 or 1)

* Praesideo 4.0 system based on network controller PRS-NCO3 and PRS-SW software version 4.0y (where y can be 0 or 1)

* Praesideo 4.1 system based on network controller PRS-NCO3 and PRS-SW software version 4.1

Documentation lodged for this Certificate of Conformity

Test Reports:

- Telefication B.V.: 20104096803 Rev 1.10, 03 September 2012
- Telefication B.V.: 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 B.V.: 20124320804 Ver. 1.00, 25 February 2013
- Telefication B.V.: 20134648801 Rev. 1.00, 10 April 2014

Product Documentation:

- Assembly drawings
- Bill of materials
- Block diagram
- Electric diagrams
- Photos
- User manual
- Manufacturer's declarations

Technical Standards and Specifications

The product shows no non-compliances with:

- EN 50130-4:   December, 1995
- EN 50130-4/A1:   April, 1998
- EN 50130-4/A2:   January, 2003
- 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: Digital Public Address and Emergency Sound System
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: Praesideo 3.5
- Software version: 3.5x (where x can be 0,1,2 or 3)

- Product description: Digital Public Address and Emergency Sound System
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: Praesideo 3.6
- Software version: 3.6y (where y can be 0 or 1)

- Product description: Digital Public Address and Emergency Sound System
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: Praesideo 4.0
- Software version: 4.0y (where y can be 0 or 1)

- Product description: Digital Public Address and Emergency Sound System
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: Praesideo 4.1
- Software version: 4.1

- Product description: 48 VDC Battery Charger
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-48CH12
- Hardware version: N/A
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: 48 VDC Battery Charger
- Trademark: PSD
- Family name: Praesideo
- Type Designation: PRS-48CHxx-DE (where xx can be 02, 05, 06 or 07)
- Hardware version: N/A
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Audio Expander
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: LBB4402/00
- Hardware version: 16/15
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Basic Amplifier 1 x 500 W
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-1B500
- Hardware version: 06/05
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Basic Amplifier 1 x 500 W
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-1B500-EU
- Hardware version: 06/05
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Basic Amplifier 2 x 250 W
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-2B250
- Hardware version: 06/05
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Basic Amplifier 2 x 250 W
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-2B250-EU
- Hardware version: 06/05
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Basic Amplifier 4 x 125 W
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-4B125
- Hardware version: 06/05
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Basic Amplifier 4 x 125 W
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-4B125-EU
- Hardware version: 06/05
- Software version: 3.5x & 3.6y & 4.0y.& 4.1

- Product description: Basic Amplifier 8 x 60 W
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-8B060
- Hardware version: 06/05
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Basic Amplifier 8 x 60 W
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-8B060-EU
- Hardware version: 06/05
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Basic Call Station
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: LBB4430/00
- Hardware version: 06/15
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Call Stacker
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-CRF
- Hardware version: 01/10 & 06/10
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Call Station Interface
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-CSI
- Hardware version: 01/15 & 01/20 & 01/30
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Call Station Keypad
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: LBB4432/00
- Hardware version: 01/18 & 01/19
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Call Station Keypad Module
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-CSKPM
- Hardware version: 11/00
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Calll Station Module
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-CSM
- Hardware version: 11/00
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Cobranet Interface
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: LBB4404/00
- Hardware version: 03/10 & 03/15
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: EOL Supervision Board
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: LBB4443/00
- Hardware version: 01/05
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Fiber Interface
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-FIN
- Hardware version: 03/15
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Fiber Interface Non-Addressable
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-FINNA
- Hardware version: 03/15
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Fiber Interface Single-Mode
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-FINS
- Hardware version: 03/15
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: IP Audio Interface
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-1AIP1
- Hardware version: 2.0
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Line Supervision Set
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: LBB4442/00
- Hardware version: 01/10
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: LSP Supervision Board
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: LBB4441/00
- Hardware version: 01/05
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Multichannel Interface
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-16MCI
- Hardware version: 04/10 & 04/15
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Network Controller
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-NCO3
- Hardware version: 30/00 & 30/10
- Software version: 4.0y & 4.1

- Product description: Network Controller
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-NCO-B
- Hardware version: 21/05 & 21/08
- Software version: 3.5x & 3.6y

- Product description: Network Splitter
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-NSP
- Hardware version: 03/15
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Numeric Keypad
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-CSNKP
- Hardware version: 01/18
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Power Amplifier 1 x 500 W
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-1P500
- Hardware version: 06/05 & 06/10
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Power Amplifier 1 x 500 W
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-1P500-EU
- Hardware version: 06/10
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Power Amplifier 2 x 250 W
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-2P250
- Hardware version: 06/05 & 06/10
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Power Amplifier 2 x 250 W
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-2P250-EU
- Hardware version: 06/10
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Power Amplifier 4 x 125 W
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-4P125
- Hardware version: 06/05 & 06/10
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Power Amplifier 4 x 125 W
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-4P125-EU
- Hardware version: 06/10
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Power Amplifier 8 x 60 W
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: LBB4428/00
- Hardware version: 04/05 & 05/05
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Power Amplifier 8 x 60 W
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: LBB4428/00-EU
- Hardware version: 05/05
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Power supply system with battery backup for Voice Alarm System
                            Praesideo
- Trademark: Merawex
- Family name: Praesideo
- Type Designation: ZDSO400E-AK3
- Hardware version: N/A
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Praesideo Software
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-SW
- Hardware version: N/A
- Software version: 3.5x (where x can be 0,1,2 or 3)

- Product description: Praesideo Software
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-SW
- Hardware version: N/A
- Software version: 3.6y (where y can be 0 or 1)

- Product description: Praesideo Software
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-SW
- Hardware version: N/A
- Software version: 4.0y (where y can be 0 or 1)

- Product description: Praesideo Software
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-SW
- Hardware version: N/A
- Software version: 4.1

- Product description: Remote Call Station
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-CSR
- Hardware version: 01/15 & 01/20 & 01/30
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Remote Call Station Module
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PRS-CSRM
- Hardware version: 11/00
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: SPEC RCS Master
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PSP-D00039
- Hardware version: 03/15
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: SPEC RCS Slave
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: PSP-D00040
- Hardware version: 03/15
- Software version: 3.5x & 3.6y & 4.0y & 4.1

- Product description: Supervision Control Board
- Trademark: BOSCH
- Family name: Praesideo
- Type Designation: LBB4440/00
- Hardware version: 01/05
- Software version: 3.5x & 3.6y & 4.0y & 4.1