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Certificate

of
Constancy of Performance

Certificate No: 0560-CPR-10219002
Issue: 09

In compliance with the procedure specified in RD_090, Telefication declares as designated Notified Body for the European Construction Products Regulation, that the stated products, evaluated according Annex 1 of this certificate, are in conformity with Regulation (EU) No 305/2011, based on the applicable Technical Standards and Specifications as listed 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 is valid as long as the requirements laid down in the technical specification(s) listed in Annex 2 do not change, and the product and the manufacturing conditions in the factory and the factory production control are not modified significantly.

This certificate has THREE Annexes.
Zevenaar, 26 January 2018

CE

Arnold van der Valk
Product assessor

PRODUCTS
RvA C 224

- Each product to which this Certificate of Constancy of Performance relates (see Annex 3 of this certificate), has been placed under the scope of the Construction Products Directive by EU Commission decision 96/577/EC and therefore falls under the Construction Products Regulation 305/2011 after July 1st 2013.

- There is a presumption of conformity with respect to the requirements as listed in Annex I of the Construction Products Directive and Construction Products Regulation 305/2011, when all applicable harmonised standards listed in the Official Journal of the EU are being applied.

- This certificate is part of the Assessment and Verification of Constancy of Performance system 1, as described in annex V of the Construction Products Regulation and made applicable by EU Commission decision 96/577/EC.

- The validity of this Certificate of Constancy of Performance is limited to products, which are equal to the one(s) assessed for this Certificate of Constancy of Performance (see Annex 3 of this certificate).

- When the manufacturer (or holder of this Certificate of Constancy of Performance) is placing the products on the European market, he is obliged to label the products with the prescribed CE logo and the Notified Body number of Telefication: 0560. The CE logo stands for conformity to all applicable directives. This Certificate of Constancy of Performance is limited to the Construction Products Regulation.

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 Constancy of Performance

Test Reports:

- Telefication B.V.: 20114721801 Rev.1.00, 03 September 2012
- CNPP: 100070, 23 July 2010
- CNPP: 110019, 17 March 2011
- Telefication B.V.: 20124320800 Ver.1.00, 29 January 2013
- VdS GmbH: BMA 11111, 12 January 2012
- Telefication B.V.: 20104096800 Rev.1.10, 03 September 2012
- Telefication B.V.: 20134632800 Ver. 1.00, 06 March 2014
- Telefication B.V.: 20134648800 Ver. 1.00, 28 March 2014
- Telefication B.V.: 20144581800 Ver. 2.00, 12 February 2015

Product Documentation:

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

Technical Standards and Specifications

The product shows no non-compliances with:

EN 54-16:2008	March, 2008
EN 54-4:1997 + AC:1999 + A1:2002 + A2:2006	2006

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 Constancy of Performance 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

- 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: Loudspeaker DC Blocking Board
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PM1-LISD
- Hardware version: 01/00
- Software version: 4.1 - 4.3

- Product description: Loudspeaker Line Isolator Master
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PM1-LISM6
- Hardware version: 01/00 - 01/05
- Software version: 4.1 - 4.3

- Product description: Loudspeaker Line Isolator Module
- Trademark: Bosch
- Family name: Praesideo
- Type designation: PM1-LISS
- Hardware version: 01/00
- Software version: 4.1 - 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

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- 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

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- 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