

Certificate of constancy of performance 0560-CPR-10219002





Issued 13 December 2019 **Replaces** 0560-CPR-10219002 / 10

First issued 31 March 2011 Page 1 of 10

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product:

Product description: Public Address and Voice Alarm System

Trademark:
Type designation:
Conditions and essential characteristics:
Variants:

Bosch
Praesideo
See Annex 1
See Annex 1

placed on the market under the name or trademark of:

Name of the manufacturer: Bosch Security Systems B.V.

Address: Torenallee 49

City: 5617 BA EINDHOVEN

Country: Netherlands

and produced in the manufacturing plant(s):

Manufacturing plant: Bosch Security Systems B.V.

Address: Torenallee 49

City: 5617 BA EINDHOVEN

Country: Netherlands

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s):

EN 54-16

EN 54-4

EN 54-4/A1

EN 54-4/A2

under system 1 for the performances set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the **constancy of performance of the construction product**.

This certificate was first issued on 2011-03-31 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Ronald Karel Managing director

Telefication B.V. Edisonstraat 12A 6902 PK ZEVENAAR The Netherlands www.telefication.com

Page 2 of 10

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.

0560-CPR-10219002

Issue: 11

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, VX25 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: Performance under fire condition	Clauses: 4, 5, 7, 10,12, 16.5, 16.6, 16.	Performance 7 Pass
Response delay (response time to fires)	7.1, 7.8, 12	Pass
Operational reliability	4, 5, 6, 7, 8, 11, 12, 13, 14	Pass
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 or Ethernet switch PRA-ES8P2S.

The Hirschmann Switch may also be used to connect, within the cabinet, other EN 54-16 compliant products as listed in annex 3.

There are six 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

Page 3 of 10

- * 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
- * Praesideo 4.4 system based on network controller PRS-NCO3 and PRS-SW software version 4.40

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.

0560-CPR-10219002

Issue: 11

Essential characteristics of EN 54-4: Clauses: Performance

Performance of power supply **Pass** Operational reliability 4, 5, 6, 7, 8 Pass

Durability of operational reliability

temperature resistance 9.5 **Pass**

Durability of operational reliability

impact and 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

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

- Product description: Public Address and Voice Alarm System

- Trademark: Bosch - Type designation: Praesideo

- 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: 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 4.0

- Hardware version: N/A - Software version: 4.00 - 4.01

SW - Product description: - 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 4.3

- Hardware version: N/A - Software version: 4.30 - 4.37

Page 4 of 10

- Product description: SW
- Trademark: Bosch
- Family name: Praesideo
- Type designation: Praesideo 4.4

- Hardware version: N/A- Software version: 4.40

- Product description: Installation Software

Trademark: Bosch
Family name: Praesideo
Type designation: PRS-SW
Hardware version: N/A
Software version: 3.5 - 4.4

- Product description: Network Controller

Trademark: Bosch
Family name: Praesideo
Type designation: PRS-NCO3
Hardware version: 30/00 - 30/25
Software version: 4.0 - 4.4

- 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 - 4.4

- Product description: Analog Audio Expander

Trademark: Bosch
Family name: Praesideo
Type designation: LBB4402/00
Hardware version: 16/15
Software version: 3.5 - 4.4

- Product description: CobraNet Interface

Trademark: Bosch
Family name: Praesideo
Type designation: LBB4404/00
Hardware version: 03/10 - 03/20
Software version: 3.5 - 4.4

- Product description: OMNEO Interface

Trademark: Bosch
Family name: Praesideo
Type designation: PRS-40MI4
Hardware version: 01/00
Software version: 4.3 - 4.4

- Product description: IP-Audio Interface

- Trademark: Bosch
- Family name: Praesideo
- Type designation: PRS-1AIP1

0560-CPR-10219002 Issue: 11

0560-CPR-10219002

Issue: 11

Page 5 of 10

- Hardware version: 02/00 - 02/50 - Software version: 3.5 - 4.4

- Product description:
- Trademark:
- Family name:
- Type designation:
- Hardware version:
- Software version:
- Call Station
- Bosch
- Praesideo
LBB4430/00
- 6/15
- Software version:
3.5 - 4.4

- Product description: Remote Call Station

Trademark:
Family name:
Type designation:
Hardware version:
Software version:
3.5 - 4.4

- Product description: Call Station Interface

Trademark: Bosch
Family name: Praesideo
Type designation: PRS-CSI
Hardware version: 01/15 - 01/35
Software version: 3.5 - 4.4

- Product description: Call Station Keypad

Trademark: Bosch
Family name: Praesideo
Type designation: LBB4432/00
Hardware version: 01/18 - 01/19
Software version: 3.5 - 4.4

- Product description: Call Station Numeric Keypad

Trademark: Bosch
Family name: Praesideo
Type designation: PRS-CSNKP
Hardware version: 01/18
Software version: 3.5 - 4.4

- Product description: Calll Station Module

Trademark: Bosch
Family name: Praesideo
Type designation: PRS-CSM
Hardware version: 11/00
Software version: 3.5 - 4.4

- Product description: Remote Calll Station Module

Trademark:
Family name:
Type designation:
Hardware version:
Software version:
3.5 - 4.4

- Product description: Call Station Keypad Module

Trademark: Bosch
Family name: Praesideo
Type designation: PRS-CSKPM
Hardware version: 11/00
Software version: 3.5 - 4.4

- Product description: Handheld emergency microphone

- Trademark: Bosch

Page 6 of 10

- Software version:

- Family name: Praesideo
- Type designation: LBB9081/00
- Hardware version: N/A

- Product description: Gooseneck emergency microphone

3.5 - 4.4

Trademark: Bosch
Family name: Praesideo
Type designation: LBB9082/00
Hardware version: N/A
Software version: 3.5 - 4.4

Product description:
 Trademark:
 Family name:
 Type designation:

Call Stacker
Bosch
Praesideo
PRS-CRF

- Hardware version: 01/10, 06/10 - 06/15

- Software version: 3.5 - 4.4

- Product description: Power Amplifier 1x500W

Trademark: Bosch
Family name: Praesideo
Type designation: PRS-1P500
Hardware version: 06/05 - 06/25
Software version: 3.5 - 4.4

- 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 - 4.4

- Product description: Power Amplifier 2x250W

Trademark: Bosch
Family name: Praesideo
Type designation: PRS-2P250
Hardware version: 06/05 - 06/25
Software version: 3.5 - 4.4

- Product description: Power Amplifier 2x250W

Trademark:
Family name:
Type designation:
Hardware version:
Software version:
3.5 - 4.4

- Product description: Power Amplifier 4x125W

Trademark: Bosch
Family name: Praesideo
Type designation: PRS-4P125
Hardware version: 06/05 - 06/15
Software version: 3.5 - 4.4

Product description: Power Amplifier 4x125W

Trademark:
Family name:
Type designation:
Hardware version:
Software version:
3.5 - 4.4

0560-CPR-10219002 Issue: 11

0560-CPR-10219002

Issue: 11

Page 7 of 10

- 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 - 4.4

- 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 - 4.4

- Product description: Multi-Channel Interface

Trademark: Bosch
Family name: Praesideo
Type designation: PRS-16MCI
Hardware version: 04/10 - 04/15
Software version: 3.5 - 4.4

- Product description: Basic Amplifier 1x500W

Trademark: Bosch
Family name: Praesideo
Type designation: PRS-1B500
Hardware version: 06/05 - 06/20
Software version: 3.5 - 4.4

- 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 - 4.4

- Product description: Basic Amplifier 2x250W

Trademark: Bosch
Family name: Praesideo
Type designation: PRS-2B250
Hardware version: 06/05 - 06/20
Software version: 3.5 - 4.4

- Product description: Basic Amplifier 2x250W

Trademark:
Family name:
Type designation:
Hardware version:
Software version:
3.5 - 4.4

- 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 - 4.4

- Product description: Basic Amplifier 4x125W

- Trademark:
- Family name:
- Type designation:
- Hardware version:
- Trademark:
- Bosch
- Praesideo
- PRS-4B125-EU
- 06/05, 07/00 - 07/10

- Software version: 3.5 - 4.4

0560-CPR-10219002

Issue: 11

Page 8 of 10

- 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 - 4.4

- 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 - 4.4

- Product description: Supervision Control Board

Trademark: Bosch
Family name: Praesideo
Type designation: LBB4440/00
Hardware version: 01/05
Software version: 3.5 - 4.4

- Product description: Supervision control board

Trademark: Bosch
Family name: Praesideo
Type designation: LBB4440/04
Hardware version: 01/05
Software version: 3.5 - 4.4

- Product description: Loudspeaker Supervision Board

Trademark: Bosch
Family name: Praesideo
Type designation: LBB4441/00
Hardware version: 01/05
Software version: 3.5 - 4.4

- Product description: End-Of-Line Supervision Set

Trademark: Bosch
Family name: Praesideo
Type designation: LBB4442/00
Hardware version: 01/10
Software version: 3.5 - 4.4

- Product description: End-Of-Line Supervision Board

Trademark:
Family name:
Type designation:
Hardware version:
Software version:
3.5 - 4.4

- Product description: Loudspeaker DC Blocking Board

Trademark: Bosch
Family name: Praesideo
Type designation: PM1-LISD
Hardware version: 01/00
Software version: 4.1 - 4.4

- Product description: Loudspeaker Line Isolator Master

Trademark: Bosch
Family name: Praesideo
Type designation: PM1-LISM6

Page 9 of 10

- Hardware version: 01/00 - 01/10 - Software version: 4.1 - 4.4

- Product description: Loudspeaker Line Isolator Module

0560-CPR-10219002

Issue: 11

Trademark: Bosch
Family name: Praesideo
Type designation: PM1-LISS
Hardware version: 01/00
Software version: 4.1 - 4.4

- Product description: Network Splitter

Trademark: Bosch
Family name: Praesideo
Type designation: PRS-NSP
Hardware version: 03/15 - 03/20
Software version: 3.5 - 4.4

- 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 - 4.4

- 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 - 4.4

- Product description: Redundant Controller Switch

Trademark: Bosch
Family name: Praesideo
Type designation: PSP-D00060
Hardware version: 03/20
Software version: 3.5 - 4.4

- Product description: Fiber Interface

Trademark: Bosch
Family name: Praesideo
Type designation: PRS-FIN
Hardware version: 03/15 - 03/20
Software version: 3.5 - 4.4

- Product description: Non-Addressable Fiber Interface

Trademark:

Family name:
Type designation:
Hardware version:
Software version:

Bosch

Praesideo
PRS-FINNA
03/15 - 03/20
3.5 - 4.4

- Product description: Single Mode Fiber Interface

- Trademark:
- Family name:
- Type designation:
- Hardware version:
- Software version:
- Trademark:
- Praesideo
- PRS-FINS
- 03/15 - 03/20
- 3.5 - 4.4

- Product description: Battery Charger 48V

- Trademark: Bosch

Page 10 of 10

- Family name: Praesideo- Type designation: PRS-48CH12

- Hardware version: N/A - Software version: 3.5 - 4.4

- Product description: Battery Charger 48V With Battery

0560-CPR-10219002

Issue: 11

- Trademark: PSD
- Family name: Praesideo
- Type designation: PRS-48CH02-DE

- Hardware version: N/A- Software version: 3.5 - 4.4

- 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 - 4.4

- 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 - 4.4

- 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 - 4.4

- Product description:
- Trademark:
- Family name:
- Type designation:
- PSE With Battery
Merawex
- Praesideo
- ZDSO400E-AK3

- Hardware version: N/A
- Software version: N/A

- Product description: Ethernet switch, 8xPoE, 2xSFP

Trademark: Advantech
Type designation: PRA-ES8P2S
Hardware version: Rev. 04
Software version: 1.01.04

- Product description: Fiber transceiver, multimode

Trademark: Advantech
Type designation: PRA-SFPSX
Hardware version: Rev. A0
Software version: N/A

- Product description: Fiber transceiver, single mode

Trademark: Advantech
Type designation: PRA-SFPLX
Hardware version: Rev. A0
Software version: N/A