

CERTIFICATE

No 000019 / 05

In accordance with the **CERTALARM** Rules
and Certification System 5, as defined in ISO / IEC Guide 67,
we certify that the product

Praesideo

is in conformity with the following standard(s)

EN54-16:2008

Voice alarm control and indicating equipment

EN54-4:1997 + AC:1999 + A1:2002 + A2:2006

Power supply equipment

BOSCH Security Systems B.V.

Torenallee 49, 5617 BA EINDHOVEN, THE NETHERLANDS

is authorised to use the **CERTALARM** Mark on the above mentioned product

This certificate is valid until:

01 February 2017

Signed on behalf of Telefication, located at Zevenaar, The Netherlands

10 June 2013



Willem Jan Jong
Product Certification Manager



CERTIFICATE

No 000019 / 05 - Annex No 1

Takes into account for the following product:

Praesideo

The optional features of the specifications that are included in the product and test report:

Implemented optional functions with requirements (per clause of EN54-16):

- 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

Test Report Number:

CNPP: 100070, 23 July 2010

CNPP: 110019, 17 March 2011

Telefication B.V.: 20104096800 Rev.1.10, 03 September 2012

Telefication B.V.: 20124320800 Rev.1.00, 29 January 2013

Telefication B.V.: 20114721801 Rev.1.00, 03 September 2012

VdS GmbH: BMA 11111, 12 January 2012

Remarks and observations

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 EN 54-16 compliance of the completely installed 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.

CERTIFICATE

No 000019 / 05 - Annex No 2

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 users 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.

- 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.

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.

There are three 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 3.6
- * Praesideo 4.0 system based on network controller PRS-NCO3 and PRS-SW software version 4.0

CERTIFICATE

No 000019 / 05 - Annex No 3

The product as described in this annex includes the following components, listed with their type designations:

Product description	Trademark	Family name	Type designation	Hardware version	Software version
Audio Expander	BOSCH	Praesideo	LBB4402/00	16/15	3.5x & 3.6 & 4.0
Basic Amplifier 1 x 500 W	BOSCH	Praesideo	PRS-1B500	06/05	3.5x & 3.6 & 4.0
Basic Amplifier 2 x 250 W	BOSCH	Praesideo	PRS-2B250	06/05	3.5x & 3.6 & 4.0
Basic Amplifier 4 x 125 W	BOSCH	Praesideo	PRS-4B125	06/05	3.5x & 3.6 & 4.0
Basic Amplifier 8 x 60 W	BOSCH	Praesideo	PRS-8B060	06/05	3.5x & 3.6 & 4.0
Basic Call Station	BOSCH	Praesideo	LBB4430/00	06/15	3.5x & 3.6 & 4.0
Call Stacker	BOSCH	Praesideo	PRS-CRF	01/10	3.5x & 3.6 & 4.0
Call Station Interface	BOSCH	Praesideo	PRS-CSI	01/15 & 01/20	3.5x & 3.6 & 4.0
Call Station Keypad	BOSCH	Praesideo	LBB4432/00	01/18 & 01/19	3.5x & 3.6 & 4.0
Cobranet Interface	BOSCH	Praesideo	LBB4404/00	03/10 & 03/15	3.5x & 3.6 & 4.0
EOL Supervision Board	BOSCH	Praesideo	LBB4443/00	01/05	3.5x & 3.6 & 4.0
Fiber Interface	BOSCH	Praesideo	PRS-FIN	03/15	3.5x & 3.6 & 4.0
Fiber Interface Non-Addressable	BOSCH	Praesideo	PRS-FINNA	03/15	3.5x & 3.6 & 4.0
Fiber Interface Single-Mode	BOSCH	Praesideo	PRS-FINS	03/15	3.5x & 3.6 & 4.0
IP Audio Interface	BOSCH	Praesideo	PRS-1AIP1	2.0	3.5x & 3.6 & 4.0
Line Supervision Set	BOSCH	Praesideo	LBB4442/00	01/10	3.5x & 3.6 & 4.0
LSP Supervision Board	BOSCH	Praesideo	LBB4441/00	01/05	3.5x & 3.6 & 4.0
Multichannel Interface	BOSCH	Praesideo	PRS-16MCI	04/10	3.5x & 3.6 & 4.0
Network Controller	BOSCH	Praesideo	PRS-NCO-B	21/05 & 21/08	3.5x & 3.6
Network Controller	BOSCH	Praesideo	PRS-NCO3	30/00 & 30/10	4.0
Network Splitter	BOSCH	Praesideo	PRS-NSP	03/15	3.5x & 3.6 & 4.0
Numeric Keypad	BOSCH	Praesideo	PRS-CSNKP	01/18	3.5x & 3.6 & 4.0
Power Amplifier 1 x 500 W	BOSCH	Praesideo	PRS-1P500	06/05 & 06/10	3.5x & 3.6 & 4.0
Power Amplifier 2 x 250 W	BOSCH	Praesideo	PRS-2P250	06/05 & 06/10	3.5x & 3.6 & 4.0
Power Amplifier 4 x 125 W	BOSCH	Praesideo	PRS-4P125	06/05 & 06/10	3.5x & 3.6 & 4.0
Power Amplifier 8 x 60 W	BOSCH	Praesideo	LBB4428/00	04/05 & 05/05	3.5x & 3.6 & 4.0
Power supply system with battery backup for Voice Alarm System Praesideo	Merawex	Praesideo	ZDSO400E-AK3	N/A	3.5x & 3.6 & 4.0
Praesideo Software	BOSCH	Praesideo	PRS-SW	N/A	3.5x (where x can be 0, 1, 2 or 3)
Praesideo Software	BOSCH	Praesideo	PRS-SW	N/A	3.6
Praesideo Software	BOSCH	Praesideo	PRS-SW	N/A	4.0
Remote Call Station	BOSCH	Praesideo	PRS-CSR	01/15 & 01/20	3.5x & 3.6 & 4.0
SPEC RCS Master	BOSCH	Praesideo	PSP-D00039	03/15	3.5x & 3.6 & 4.0
SPEC RCS Slave	BOSCH	Praesideo	PSP-D00040	03/15	3.5x & 3.6 & 4.0
Supervision Control Board	BOSCH	Praesideo	LBB4440/00	01/05	3.5x & 3.6 & 4.0
48 VDC Battery Charger	BOSCH	Praesideo	PRS-48CH12	N/A	3.5x & 3.6 & 4.0
48 VDC Battery Charger	PSD	Praesideo	PRS-48CHxx-DE (where xx can be 02, 05, 06 or 07)	N/A	3.5x & 3.6 & 4.0