

Date: 16 January 2018

CERTIFICATE OF COMPLIANCE

This	certificate of complia	ance validates the	following
TEST REPORT NUMBER 'Assessment Reports' are not acceptable	TE298770 P106286-1001 P108134-1001	CERTIFICATE NUMBER	1054b-(cl-2)
DATE OF ISSUE	29 October 2015 4 July 2017 7 September 2017	DATE OF ISSUE	16 January 2018
DATE OF EXPIRY	N/A	DATE OF EXPIRY	N/A
2 (150)	Manufac	turer details	
NAME OF FACTORY/ MANUFACTURER	Bosch (Zhuhai) Security Systems Co. Ltd.	NAME OF THE BRAND	Bosch
FACTORY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	Bosch (Zhuhai) Security Systems Co. Ltd. 20 Ji Chang Bei Road Qingwan Industrial Estate, Sanzao Town, Jinwan District, Zhuhai, Guangdong 519040, China	MODEL / NO	Control and indicating equipment Bosch / PAVIRO VACIE
WEBSITE	www.boschsecurity.com	LOGO ON THE PRODUCT	BOSCH
TEL	+31(40)257-7174	EMAIL	nl.Securitysystems@bosch.com



	Product Details From Test Report	Reference Test Report page NO
	Voice Alarm Control and Indicating Equipment	
	Incorporating the following modules: PVA-2P500 PAVIRO 2x500 W Amplifier PVA-15CST PAVIRO Call Station PVA-15ECS PAVIRO Call Station PVA-20CSE PAVIRO Call Station Extension PVA-1KS PAVIRO CST Key Switch PVA-1EB PAVIRO CST Emergency button OM-1 Network Module	
DESCRIPTION OF THE PRODUCT (TECHNICAL DETAILS FROM TEST REPORT, SUCH AS ACTUAL FIRE RATINGS/DIMENSIONS/THICKNESS/SENSITIVITY ETC)	Certified with the following options with requirements from EN54-16: 7.3 Audible Warning 7.5 Phase evacuation 7.6.2 Manual silencing of the voice alarm condition 7.7.2 Manual reset of the voice alarm condition 7.9 Voice alarm condition output 8.3 Indication of faults related to the transmission path to the CIE 8.4 Indication of faults related to voice alarm zones 10 Voice alarm manual control 12 Emergency microphone(s) 13.14 Redundant power amplifier	
RE GLOBALLANDE 9XX	Notes: 1. The VACIE is approved when connected to PLN-1EOL or PVA-1WEOL end of line board or with activated impedance measurement. 2. The VACIE speaker lines are monitored by use of end line modules namely PLN-1EOL end of line board, PVA-1WEOL addressable end of line board or impedance measurement. 3. The PVA-15CST call station requires the PVA-1KS and PVA-1EB in order to meet option with requirement clause 10 and 12 of EN 54-16. 4. The PVA-20CSE is approved when connected with PVA-15CST call station 5. The following IP30 cabinets have been approved for use with PAVIRO: - Rittal TS8 based rack, with a lockable glass door, side panels, temperature controlled top fans and having a fixed frame with a maximum height of 42 HU (i.e. TS-IT series) or a lockable swing frame with a maximum height of 40 HU (i.e. TS-series). - Schroff (20130073 PRAESIDEO) - Diamond 19 Inch Cabinet (Manufacturer: E.Lan)	



	_				DESCRIPTION OF THE PERSON OF T	The second second second
	6.	The following SFP Module				
		when connected to the n			ME:-	
		P-LX-E-10 Single mode 131		dule		1
		P-SX-E Multi-mode 850nm				
		certificate is valid only who			n performed	
9		rdance with the "EN54-16		klist".		
TEST STANDARD		4:1997 + A1:2002 + A2:200	6			
(SUCH AS ASTM/BS EN/ DN ETC)		16:2008		•	(1) B 1	TE29877
		ject of this evaluation was		5		
TEST DESCRIPTION		O voice alarm control and in the requirements of Loss Pre				Page 5
		le E123299/1.42.	evention cert	IIICation boa	id (LFCb) test	¥1
	scriedo	Equipm	ent			TE29877
		Lydipii Lisanii Cikalii Vanana ka				Page 6
	Qty	Description	Submission	Receipt da	te	
	the said	See and the second second	200 420			
	1	PAVIRO VACIE	1	29/10/201	14	
		(Specimen 1)	_	25, 20, 20.		
	1	- Longil - Di 4014				
	2	Bosch S5 Silver Plus 12V	1	29/10/203	15	
		74 Ah battery				
	Service	E	quipment			
	Qty	Description		Submission	Receipt date	P106286
SPECIFICATION OF TEST	1	PAVIRO VACIE (Cabine	B)	1	16/12/2016	1001 Page 5
SPECIMEN	1	PVA-15CST call station	(15 zone)	1	16/12/2016	
,	1	PVA-20CST call station (20 zone)	extension	1	16/12/2016	
	2	Bosch S5 Silver Plus 12 battery	V 74 Ah	1	16/12/2016	
			quipment	12000, F1		
also	Qt	y Description	Su	bmission	Receipt date	
SEAL LY SE	1	PAVIRO VACIE (Cabine	+ R)	1	21/07/2017	

United Arab Emirates
Ministry of interior
Civil Defense G.H.Q
Fire intentional Lab & House
Of Expertise & Training Center
Approval Committee



دولة الامارات العربية المتحدة وزارة الداخلية القيادة العامة للدفاع المدني لجنة اعتماد المختبرات العالمية وبيوت الخبرة ومعاهد التدريب

		1	PVA-15CST call station (15 zone)	1	21/07/2017	
		1	PVA-20CST call station extension (20 zone)	1	21/07/2017	
		2	Bosch S5 Silver Plus 12V 74 Ah battery	1	21/07/2017	P108134- 1001 Page 5
				В		
	1 0 0	oudspea oudspea connecte the differ compatib	IRO VACIE was tested to EN 54-1 ker was rated at 70/100Vrms lin akers with compatible electrical d to the VACIE. The manufacture that can be colle loudspeakers that can be colle loudspeakers. Image: The manufacture is a spould be installed in accordation instruction and apply the nation.	e, in which case rating of 70/100 er's installation onnected, see pa	e only OVrms may be instruction list age 5 list of anufacturer's	TE298770 Page 6
TEST RESULT (SUCH AS PASSED CRITERIA/ COMPLIED TO/ DURATION/OBSERVATION/ETC)		16:2008 ¹	D Page 6 h Security Systems B.V. PAVIRO as specified in LPCB test schedu ubmission.			P106286-
			h Security Systems B.V. PAVIRO as specified in BRE test schedul			1001 Page 45
		selected 4:1995 ⁶ +	h Security Systems B.V. PAVIRO clauses from EN 54-16:2008 ² , EN A1:1998+A2:2003 and EN 50130	N 50130-)-4:2011 ⁷ +A1:2	014 in	P108134-
		accordar	ice with BRE test schedule P108	134/1.3 ¹ on sub	mission 3.	1001 Page 23
PRODUCT APPLICATION GUIDELINE (END USE)		Product	Manual F01U306896		,	
(CLEARLY STATE THE END USE WITH SPECIFIC APPLICATION, SUCH AS EXACT FIRE RATING/TO BE INSTALLED INTO BE INSTALLED ATTO BE CONNECTED WITHTO BE INSTALLED WITHETC ALONG WITH ANY WARNINGS SUCH AS NOT TO BE USED INNOT TO BE INSTALLED ATNOT TO BE INSTALLED WITHETC.				B	REGLOBALLT BUCKNAUSLA NATFORD WD	D NE 5 9XX

Addendum to product manual F01U306900:

The PAVIRO VACIE was tested to EN 54-16 where the output to loudspeaker was rated at 70/100Vrms line, in which case only Loudspeakers with compatible electrical rating of 70/100Vrms may be connected to the VACIE. The manufacturer's installation instruction lists the different loudspeakers that can be connected. The system should be installed in accordance with the manufacturer's installation instruction and apply the national code of practice

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Туре	Description
Column loudspeakers	
LA1-UM20E-1	Column loudspeaker, 20W
LA1-UM40E-1	Column loudspeaker, 40W
Cabinet loudspeakers	
LB1-UM06E-1	Cabinet loudspeaker, metal, circular
LB1-UM20E-L	Cabinet loudspeaker, 20W, white
LB1-UM20E-D	Cabinet loudspeaker, 20W, black
LB1-UM50E-L	Cabinet loudspeaker, 50W, white
LB1-UM50E-D	Cabinet loudspeaker, 50W, black
LB3-PC250	Cabinet loudspeaker, 250W, 12"
LB3-PC350	Cabinet loudspeaker, 350W, 15"
LBC3018/01	Cabinet loudspeaker, metal, rectangular
Line array loudspeakers	Cabinot roadopeditor, inicial, restangular
LBC3200/00	Line array loudspeaker, 30W
LBC3201/00	Line array loudspeaker, 60W
LBC3210/00	Line array loudspeaker, 60W, outdoor
	Line array loudspeaker, dow, dataoor
Ceiling loudspeakers LBC3086/41	Ceiling loudspeaker 6W metal clamp mount
LBC3081/02	Metal fire dome for LBC3086/41
LBC3087/41	Ceiling loudspeaker, 6W, screw mount
LBC3080/01	Metal fire dome
LC1-WC06E8	Ceiling loudspeaker, 6W, ABS Enclosure type LC1-MFD, LC1-CSMB (+LC1-MSK), LC1-CMR+
LC1-WC06E8 accessories	
LC1-WM06E8	LC1-CBB
	Ceiling loudspeaker, 6W, metal, 4* Enclosure type LC1-MFD, LC1-CSMB (+LC1-MSK), LC1-CMR+
LC1-WM06E8 accessories	LC1-CBB
LC1-UM06E8	Ceiling loudspeaker, 6W, metal
LC1-UM06E8 accessories	Enclosure type LC1-MFD, LC1-CSMB (+LC1-MSK), LC1-CMR+LC1- CBB
LC1-UM12E8	Ceiling loudspeaker, 12W, coaxial
LC1-UM12E8 accessories	Enclosure type LC1-MFD, LC1-CSMB (+LC1-MSK), LC1-CMR+LC1-CBB
LC1-UM24E8	Ceiling loudspeaker, 24W, coaxial
LC1-UM24E8 accessories	Enclosure type LC1-MFD, LC1-CSMB (+LC1-MSK), LC1-CMR+LC1-
	СВВ
LC3-UC06E with LC3-CBB	Ceiling loudspeaker, 6W, spring arms with Back box for LC3 speaker
LC4-UC06E	Ceiling loudspeaker, 6W, wide angle
LC4-UC12E	Ceiling loudspeaker, 12W, wide angle
LC4-UC24E	Ceiling loudspeaker, 24W, wide angle
LC5-WC06E4	Ceiling loudspeaker, 6W, ABS, 2*
LC5-CBB	Back box for LC5 speaker
LC20-PC60G6-8E	Premium sound 60 W 8" ceiling Isp (2pcs)
LC20-PC60G6-6E	Premium sound 60 W 6"ceiling lsp (2 pcs)
Horn loudspeakers	사고 있는 것이 되었다. 그런 경기 시간 경기 기가 되었다. 그런
LH1-UC30E	Horn loudspeaker, 30W, music
LH1-10M10E	Horn loudspeaker, 10W, 7x8*
LH2-UC15E	Horn loudspeaker, 15W, marine
LBC3482/00	Horn loudspeaker, 25W
LBC3483/00	Horn loudspeaker, 35W
Sound projectors	
LBC3430/03	Sound projector 12W metal bi-directional
LBC3432/03	Sound projector 20W metal unidirectional
LC4-CBB	Back box for LC4 speaker
LC4-MFD	Metal fire dome for LC4 speaker
LP1-BC10E-1	Sound projector, 10W, bi-directional
LP1-UC10E-1	Sound projector, 10W, uni-directional
	Sound projector, 20W, uni-directional
LP1-UC20E-1	
LP1-UC20E-1 LS1-UC20E-1	Pendant sphere loudspeaker, 20W





	Laboratory and Certi	fication body de	tails
NAME OF CERTIFICATION BODY	BRE Global Ltd.	NAME OF TEST FACILITY	BRE Global Ltd.
CERTIFICATION BODY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	Bucknalls Lane Garston Watford WD25 9XX United Kingdom	TEST FACILITY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	Bucknalls Lane Garston Watford WD25 9XX United Kingdom
WEBSITE	www.breglobal.com	WEBSITE	www.breglobal.com
TEL	+44 (0)333 321 88 11	TEL	+44 (0)333 321 88 11
EMAIL	BREGlobalEnquiries@bre.co.uk	EMAIL	BREGlobalEnquiries@bre.co.uk
ACCREDITED BY (NAME OF ACCEDITATION BODY WHICH ISSUED ACCEDITATION TO THE CERTIFICATION BODY, ALONG WITH WEBSITE)	UKAS www.ukas.com	ACCREDITED BY (NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE LABORATORY, ALONG WITH WEBSITE)	UKAS www.ukas.com
AS PER (STANDARD TO WHICH THE CERTIFICATION BODY IS ACCREDITED TO)	EN45011: 1998 / ISO 17065: 2012	AS PER (STANDARD TO WHICH YOUR ORGANIZATION IS ACCREDITED TO)	ISO 17025: 2005
VALIDITY (EXPIRY DATE OF CERTIFICATION BODY ACCREDITATION)	N/A	VALIDITY (EXPIRY DATE OF LABORATORY ACCREDITATION)	N/A
REFERENCE NUMBER: (CERTIFICATION BODY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)	0007	REFERENCE NUMBER: (THE LABORATORY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)	0578
CERTIFICATION MARK	LPCB BOOK CERTIFICATION OF THE PROPERTY OF THE		
	1054b/02		1054b-(cl-2)



NAME OF MANUFACTURER'S SIGNATORY	Chester Chan, manufacturing manager Zhuhai, CHina	SIGNATURE	O Con
EMAIL / TEL	nl.Securitysystems@bosch.com +31(40)257-7174	FACTORY OFFICIAL SEAL	(水) (水) (水) (水) (水) (水) (水) (水) (水) (水)

NAME OF CERTIFICATION BODY SIGNATORY	BRE Global Ltd. E Mattie-Suleiman	SIGNATURE	BRE GLOBALLITO BUCKWALLS LANE WATEORD WD25 9XX
EMAIL / TEL	BREGlobalEnquiries@bre.co.uk +44 (0)333 321 88 11	CERTIFICATION BODY OFFICIAL SEAL	WATEORD VI

ATTACHMENTS:

• COPY OF 'CERTIFICATE OF COMPLIANCE' ISSUED BY CERTIFICATION BODY (OLD OR NEW)