



Date: August 21, 2019

CERTIFICATE OF COMPLIANCE

This certificate of compliance validates the following			
TEST REPORT NUMBER	1. 1847/BA/19 2. 1368/BA/18	CERTIFICATE NUMBER	DC – UAE – 0132
DATE OF ISSUE	1. August 6, 2019 2. March 25, 2016	DATE OF ISSUE	August 21, 2019
DATE OF EXPIRY	Not applicable	DATE OF EXPIRY	August 20, 2029
Manufacturer details			
NAME OF FACTORY / MANUFACTURER	Ambient-System Sp. z o.o.	NAME OF THE BRAND	Edwards
FACTORY ADDRESS / REGION	ul. Galaktyczna 37 80-299 Gdańsk Republic of Poland	MODEL / NO	EST-S186, EST-S186C
WEBSITE	www.firesecurityproducts.com	LOGO ON THE PRODUCT	
TELEPHONE	+34 93 480 27 78	EMAIL	secretariaat.nederland@fs.utc.com



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

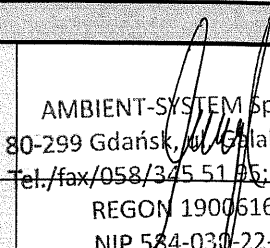
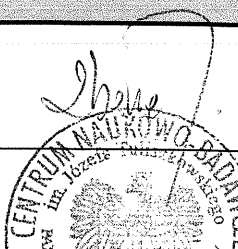
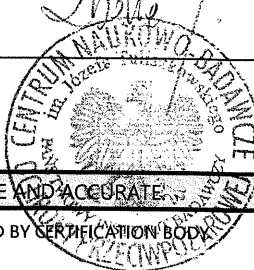
القيادة العامة للدفاع المدني

لجنة اعتماد المختبرات العالمية

وبيوت الخبرة ومعاهد التدريب

Product Details From Test Report			Reference Test Report Page No.
DESCRIPTION OF THE PRODUCT	Loudspeaker for voice alarm systems type EST-S186, EST-S186C (Detailed specification below)		(3) 1847/BA/19 1368/BA/18
TESTS STANDARD	EN 54-24:2008: Fire detection and fire alarm systems – Part 24: Components of voice alarm systems – Loudspeakers		(6) 1847/BA/19 (7) 1368/BA/18
TESTS DESCRIPTION	Requirements, test methods and performance criteria for loudspeakers intended to broadcast a warning of fire between a fire detection and fire alarm system and the occupants of a building.		(6) 1847/BA/19 (7) 1368/BA/18
SPECIFICATION OF TEST SPECIMEN	Loudspeaker type:	EST-S186	EST-S186C
	Transformer type:	TF06-TF	
	Loudspeaker power voltage [V]:	70 / 100	
	Loudspeaker rated power [W]:	6	
	Loudspeaker output setting on the transformer taps [W]:	70V: 3 / 1,5 / 0,75 / 0,37 100V: 6 / 3 / 1,5 / 0,75	
	Loudspeaker impedance [Ω]:	8	
	Impedance of transformer – for particular terminals [Ω]:	1667 / 3333 / 6667 / 13333	
	Maximum sound pressure level (rated power / 4m) [dB]:	86	
	Sensitivity S (1W / 4m) [dB]:	79	
	Coverage angle for 500 Hz [°]:	180	
	Coverage angle for 1kHz [°]:	180	
	Coverage angle for 2kHz [°]:	150	
	Coverage angle for 4kHz [°]:	90	
	Type of work environment:	A	
	IP protection:	21C	
	Terminals:	ceramic connection block	
	Type of installation:	recessed into wall or ceiling made of gypoc plasterboard suspended ceiling mounted hanging	
	Dimensions of loudspeaker with housing [mm]:	Ø 175 x 75	
	Material of housing:	plastic material	
	Mass [g]:	655	663
	Optional elements	Identifying data	
	Fuse activation parameter:	250V, 5A, 130°C	
	Type of capacitor:	not applicable	not applicable
	Filter:	not applicable	
	Type of additional protection:	not applicable	
TESTS RESULTS	EN 54-24	Frequency response limits	PASS
	EN 54-24	Reproducibility	PASS
	EN 54-24	Rated impedance	PASS
	EN 54-24	Horizontal and vertical coverage angles	PASS
	EN 54-24	Maximum sound pressure level	PASS
	EN 54-24	Durability	PASS
	EN 54-24	Construction	PASS
	EN 54-24	Marking and data	PASS
	EN 54-24	Rated noise power (durability)	PASS
	EN 54-24 - EN 60529	Enclosure protection (IP and IK)	PASS
	EN 54-24 - EN 60068-2-2	Dry heat (operational)	PASS
	EN 54-24 - EN 60068-2-2	Dry heat (endurance)	PASS
	EN 54-24 - EN 60068-2-1	Cold (operational)	NOT APPLICABLE
	EN 54-24 - EN 60068-2-30	Damp heat (cyclic operational)	PASS
	EN 54-24 - EN 60068-2-78	Damp heat (steady state endurance)	PASS
	EN 54-24 - EN 60068-2-30	Damp heat (cyclic endurance)	NOT APPLICABLE
	EN 54-24 - EN 60068-2-42	Sulphur dioxide corrosion (endurance)	PASS
	EN 54-24 - EN 60068-2-27	Shock (operational)	PASS
	EN 54-24 - EN 60068-2-75	Impact (operational)	PASS
	EN 54-24 - EN 60068-2-6	Sinusoidal vibration (operational)	PASS
	EN 54-24 - EN 60068-2-6	Sinusoidal vibration (endurance)	PASS
PRODUCT APPLICATION GUIDELINE	21.08.2019	EST-S186, EST-S186C are indoor loudspeakers. They are made of metal. They may be recessed into a surface wall or ceiling mounted. In addition they may be mounted to wall or concealed ceiling mounted. The loudspeaker for voice alarm systems type EST-S186C is equipped with a capacitor. Loudspeakers for voice alarm systems type EST-S186, EST-S186C have to be used with Voice Alarm System.	
		Not applicable	



Laboratory and Certification Body Details			
NAME OF CERTIFICATION BODY	CNBOP-PIB Centrum Naukowo-Badawcze Ochrony Przeciwpożarowej Państwowy Instytut Badawczy	NAME OF TEST FACILITY	CNBOP-PIB Zespół Laboratoriów Sygnalizacji Alarmu Pożaru i Automatyki Pożarniczej
CERTIFICATION BODY ADDRESS / REGION	ul. Nadwiślańska 213 05-420 Józefów REPUBLIC OF POLAND	TEST FACILITY ADDRESS / REGION	ul. Nadwiślańska 213 05-420 Józefów REPUBLIC OF POLAND
WEBSITE	www.cnbop.pl	WEBSITE	www.cnbop.pl
TELEPHONE	+48 22 769 33 47	TELEPHONE	+48 22 769 32 26
EMAIL	jcw@cnbop.pl	EMAIL	ba@cnbop.pl
ACCREDITED BY	Polish Centre for Accreditation http://www.pca.gov.pl	ACCREDITED BY	Polish Centre for Accreditation http://www.pca.gov.pl
AS PER	EN ISO/IEC 17065 Requirements for bodies certifying products, processes and services	AS PER	EN ISO/IEC 17025 General requirements for the competence of testing and calibration laboratories
VALIDITY	October 3, 2022	VALIDITY	October 11, 2021
REFERENCE NUMBER	AC 063	REFERENCE NUMBER	AB 207
CERTIFICATION MARK	 CNBOP-PIB		
(ENDORSEMENT) TO BE SIGNED BY MANUFACTURER			
NAME AND SURNAME OF MANUFACTURERS SIGNATORY	Ambient-System Sp. z o.o. V-ce President Bogusław Adamczyk	SIGNATURE	 AMBIENT-SYSTEM Sp. z o.o. 80-299 Gdańsk, ul. Gdylaktyczna 37 Tel./fax/058/345 51 95; 343 18 77
EMAIL / TELEPHONE	ambient@ambient-system.pl +48 58 345 51 95	FACTORY OFFICIAL SEAL	REGON 190061698 NIP 584-030-22-20
NOTES	I UNDERTAKE THAT ALL DATA AND INFORMATION PROVIDED ARE GENUINE AND ACCURATE.		
(ENDORSEMENT) TO BE CERTIFICATION BODY			
NAME AND SURNAME OF CERTIFICATION BODY SIGNATORY	st. bryg. dr inż. Jacek Zboina	SIGNATURE	 
EMAIL / TELEPHONE	cnbop@cnbop.pl +48 22 769 33 00	CERTIFICATION BODY OFFICIAL SEAL	
NOTES	I UNDERTAKE THAT ALL DATA AND INFORMATION PROVIDED ARE GENUINE AND ACCURATE.		

ATTACHMENT:

COPY OF "CERTIFICATE OF CONSTANCY OF PERFORMANCE" NO. 1438-CPR-0671 ISSUED BY CERTIFICATION BODY