Date: 13th March 2020

CERTIFICATE OF COMPLIANCE

This certificate of compliance validates the following			
TEST REPORT NUMBER 'Assessment Reports' are not acceptable	17/32300178	**CERTIFICATE NUMBER**	APF-1361
DATE OF ISSUE	30th/01/2017	**DATE OF ISSUE**	13th/03/2020
DATE OF EXPIRY	--	**DATE OF EXPIRY**	06th/02/2021
Manufacturer details			
NAME OF FACTORY/ MANUFACTURER	OPTIMUS, S.A.	**NAME OF THE BRAND**	OPTIMUS
FACTORY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	CL BARCELONA,101 17003 GIRONA (ESPAÑA)	**MODEL / NO**	COMPACT SYSTEM
WEBSITE	http://www.optimusaudio.com	**LOGO ON THE PRODUCT**	OPTIMUS
TEL	+34 972 203 300	**EMAIL**	info@optimus.es

Product Details From Test Report		Reference Test Report page NO
DESCRIPTION OF THE PRODUCT (TECHNICAL DETAILS FROM TEST REPORT, SUCH AS ACTUAL FIRE RATINGS/DIMENSIONS/THICKNESS/ SENSITIVITY ETC)	Voice Alarm Control and Indicating Equipment for Public Address and fire alarm & emergency systems, commercial reference "COMPACT SYSTEM", trademark OPTIMUS. Equipment with insulating enclosure and class I of protection against electrical shock. The tested system includes the following modules and options: ▪ COMPACT: modular IP audio matrix for Public Address & Voice Alarm System. ▪ COMPACT-E: System expansion unit. ▪ UMX-C16: Contacts card with 16 inputs and 4 outputs. ▪ UMX-EA3: 2 audio input card for priority and/or music with VOX control. ▪ UMX-2M3: 2 audio input card for BGM. ▪ UMX-2SA: 2 audio output card with amplifiers & speaker lines surveillance. ▪ UMX-MC6: Zones subdivision card (6) with backup functionalities. ▪ UMX-2SB1/2/3/4: Zones subdivision card (from 4 to 16) with individual music volume and surveillance/backup functionalities. ▪ DC700ETH: PA/VA remote console device & fireman's microphone. ▪ DA500D2: 2x500W power amplifier. ▪ DA500D4: 4x500W power amplifier. ▪ MS150: Unit of Power Supply SLAT certified EN54-4. ▪ ME200B: Built-in fireman's panel & microphone for COMPACT equipment. ▪ LC-XB12100P: PANASONIC batteries 12V 100Ah. ▪ Z-53CPR: enclosure for DC-700ETH equipment. ▪ Z-53DFC: circuit breaker for MS-150 batteries. ▪ Z-53DFA: circuit breaker for MS-150 main power supply. ▪ Z-53TC: individual power supply plug for MS-150. ▪ Z-50CF1: module for speaker line and ethernet connection. ▪ Z-50CF2: 230VAC input filter. ▪ C678CE2A: speaker line protection circuit for Z-50CF1. ▪ C678CE3A: ethernet protection circuit for Z-50CF1. ▪ IE-SW-BL08-8TX: WEIDMUELLER 8 port network switch. ▪ AR-18KEN54: 18 units rack cabinet with accessories for EN54-16 compliance. ▪ AR-27KEN54: 27 units rack cabinet with accessories for EN54-16 compliance. ▪ AR-37KEN54: 37 units rack cabinet with accessories for EN54-16 compliance. ▪ AR-42KEN54: 42 units rack cabinet with accessories for EN54-16 compliance.	3

TEST STANDARD (SUCH AS ASTM/BS EN/ DN ETC)	**EN 54-16:2008**: "Fire detection and fire alarm systems. Part 16: Voice alarm control and indicating equipment."	4
TEST DESCRIPTION	Construction and performance test of a voice alarm control and indicating equipment.	4
SPECIFICATION OF TEST SPECIMEN	2 different samples have been used to perform the tests. The sample M/01 & M/02 are composed of the following elements: ▪ PA/VA remote console device & fireman's microphone, DC700ETH ▪ RACK, AR-37KEN54 ▪ Modular IP audio matrix for Public Address & Voice Alarm System, COMPACT ▪ System expansion unit, COMPACT-E ▪ 2x500 power amplifier, DA500D2 ▪ 4x500 power amplifier, DA500D4	4
TEST RESULT (SUCH AS PASSED CRITERIA___/ COMPLIED TO___/ DURATION___/OBSERVATION___/ETC)		17/32300178

Essential characteristics	Clauses in this European Standard	Mandated level(s) or class(es)
General Requirements	4	PASS
General Requirements For Indications	5	PASS
The Quiescent Condition	6	PASS
Reception and processing of fire signals	7.1	PASS
Indication of the voice alarm condition	7.2	PASS
Phased evacuation (option with requirements)	7.5	PASS
Silencing of the voice alarm condition	7.6	PASS
Reset of the voice alarm condition	7.7	PASS
Voice alarm condition output (option with requirements)	7.9	PASS
Fault Warning Conditions	8	PASS
Voice Alarm Manual Control	10	PASS
Interface to External Control Device(s)	11	PASS
Emergency Microphone(s)	12	PASS
Design Requirements	13	PASS
Additional Design Requirements for Software Controlled VACIE	14	PASS
Marking	15	PASS
Output Power	16.4	PASS
Signal-to-noise Ratio	16.5	PASS
Frequency Response of VACIE Without Microphone(s)	16.6	PASS
Frequency Response of VACIE With Microphone(s)	16.7	PASS
Cold (Operational)	16.8	PASS
Damp, Heat, Steady State (Operational)	16.9	PASS
Damp, Heat, Steady State (Endurance)	16.10	PASS
Impact (Operational)	16.11	PASS
Vibration, Sinusoidal (Operational)	16.12	PASS
Vibration, Sinusoidal (Endurance)	16.13	PASS
Supply Voltage Variation (Operational)	16.14	PASS
Electromagnetic Compatibility (EMC), Immunity tests (Operational)	16.15	PASS

Product Details From Test Report		Reference Test Report page NO
PRODUCT APPLICATION GUIDELINE (END USE) (CLEARLY STATE THE END USE WITH SPECIFIC APPLICATION, SUCH AS EXACT FIRE RATING/TO BE INSTALLED IN___/TO BE INSTALLED AT____/TO BE CONNECTED WITH____/TO BE INSTALLED WITH___ ETC ALONG WITH ANY WARNINGS SUCH AS NOT TO BE USED IN___/NOT TO BE INSTALLED AT___ / NOT TO BE INSTALLED WITH___ETC.	Fire detection and fire alarm systems. Part 16: Voice alarm control and indicating equipment.	4

Laboratory and Certification body details			
NAME OF CERTIFICATION BODY	Applus - LGAI Technological Center S.A.	**NAME OF TEST FACILITY**	Applus - LGAI Technological Center S.A.
CERTIFICATION BODY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	Campus UAB- Ronda de la Font del Carme s/n E-08193 Bellaterra, Barcelona, SPAIN	**TEST FACILITY ADDRESS / REGION** (STREET / TOWN / CITY / COUNTRY)	Campus UAB- Ronda de la Font del Carme s/n E-08193 Bellaterra, Barcelona, SPAIN
WEBSITE	www.applus.com	**WEBSITE**	www.applus.com
TEL	+34 93 567 20 00	**TEL**	+34 93 567 20 00
EMAIL	info@appluslaboratories.com	**EMAIL**	info@appluslaboratories.com
ACCREDITED BY (NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE CERTIFICATION BODY, ALONG WITH WEBSITE)	ENAC	**ACCREDITED BY** (NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE LABORATORY, ALONG WITH WEBSITE)	ENAC
AS PER (STANDARD TO WHICH THE CERTIFICATION BODY IS ACCREDITED TO)	UNE EN ISO/IEC 17065	**AS PER** (STANDARD TO WHICH YOUR ORGANIZATION IS ACCREDITED TO)	UNE-EN ISO/IEC 17025
VALIDITY (EXPIRY DATE OF CERTIFICATION BODY ACCREDITATION)	UNLIMITED	**VALIDITY** (EXPIRY DATE OF LABORATORY ACCREDITATION)	UNLIMITED
REFERENCE NUMBER: (CERTIFICATION BODY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)	OC-P/009	**REFERENCE NUMBER:** (THE LABORATORY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)	Nº 9/LE776 Nº 9/LE894 Nº 9/LE895 Nº 9/LE1126
CERTIFICATION MARK	Applus laboratories		

(ENDORSEMENT) TO BE SIGNED BY MANUFACTURER			
NAME OF MANUFACTURER'S SIGNATORY	Joaquim Pla Olivé	SIGNATURE	
EMAIL / TEL	jplao@optimus.es +34 972 20 33 00	FACTORY OFFICIAL SEAL	OPTIMUS SA
NOTES: I Undertake that all data and information provided are genuine and accurate			

(ENDORSEMENT) TO BE SIGNED BY CERTIFICATION BODY			
NAME OF CERTIFICATION BODY SIGNATORY	Xavier Ruiz Peña	SIGNATURE	
EMAIL / TEL	xavier.ruiz@applus.com +34 93 567 20 00	CERTIFICATION BODY OFFICIAL SEAL	Applus® LGAI Technological Center, S.A.
NOTES: I Undertake that all data and information provided are genuine and accurate			

ATTACHMENTS:

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