



CERTIFICATE OF CONSTANCY OF PERFORMANCE

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:

FIRE DETECTION AND FIRE ALARM SYSTEMS:

- **PART 16: VOICE ALARM CONTROL AND INDICATING EQUIPMENT: COMPACT SYSTEM**

Place on the market under the name of:

OPTIMUS, S.A.

C/ BARCELONA, 101
17003 GIRONA (SPAIN)

And produced in the manufacturing plant:

C/ BARCELONA, 101
17003 GIRONA (SPAIN)

This certificate attests that all provisions concerning the assessment and verification of constancy of performance and the performances described in Annex ZA of the standard

EN 54-16:2008

under system 1 are applied and that **the product fulfils all the prescribed requirements set out above.**

This certificate was first issued on 10th February 2017 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly. It is confirmed on 13th March 2020.

The monitoring assessment will be done before February 2021

Bellaterra, 13th March 2020


LGAI Technological Center, S.A.

Xavier Ruiz Peña
Managing Director, Product Conformity B.U.



This document is not valid without its technical annex, whose number coincides with the number of certificate.

You can check the validity of this certificate into our website at: <https://apps.applus.com/microsites/microsites/FECIP/login>

0370-CPR-2634

Annexes according to EN 54-16:2008

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
Audible warning (option with requirements)	7.3	NA
Delays to entering the voice alarm condition (option with requirements)	7.4	NA
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
Output to fire alarm devices (option with requirements)	7.8	NA
Voice alarm condition output (option with requirements)	7.9	PASS
Fault Warning Conditions	8	PASS
Disabled Condition	9	NA
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

PASS; NPD = No Performance Determined, NA = Not Apply

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Essential characteristics	Clauses in this European Standard	Mandated level(s) or class(es)
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

PASS; NPD = No Performance Determined, NA = Not Apply

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THE CERTIFIED 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.