

CERTIFICATE OF CONSTANCY OF PERFORMANCE

LGAI Technological Center, S.A. (APPLUS)
Notified Body Nr. 0370

No.

0370-CPR-3657

In compliance with Regulation (EU) No.305/2011 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:

- POWER SUPPLY EQUIPMENT
- VOICE ALARM CONTROL AND INDICATING EQUIPMENT

MODEL: **RE-2AS, RE-2ASBC**

Placed on the market under the name of:

Ravel Electronics Pvt Ltd.

150-A, Electronics Industrial Estate, Perungudi, Chennai-600096, India

And produced in the manufacturing plant:

22/32307695

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

EN 54-4:1997, EN 54-4:1997/AC:1999, EN 54-4:1997/A1:2002, EN 54-4:1997/A2:2006; EN 54-16:2008

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product.

This certificate was first issued on 27th September 2019 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body. It is confirmed and modified on 4th November 2022.

The monitoring assessment will be done before 31st January 2024

Bellaterra, 4th November 2022




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 on our website: www.appluslaboratories.com/certified_products

The manufacturer, after the completion of the conformity assessment procedures and the declaration of performance, may affix the CE Marking under his responsibility



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Annexes according to **EN 54-4:1997, EN 54-4:1997/AC:1999, EN 54-4:1997/A1:2002, EN 54-4:1997/A2:2006**

FIRE DETECTION AND FIRE ALARM SYSTEMS. PART 4: POWER SUPPLY EQUIPMENT.

Essential characteristics	Clauses in this European Standard	Mandated level(s) or class(es)
General requirements	4.	PASS
Functions	5.	PASS
Materials, design and manufacture	6.	PASS
Documentation	7.	PASS
Marking	8.	PASS
Cold (operational)	9.5	PASS
Damp Heat, steady state (operational)	9.6	PASS
Impact (operational)	9.7	PASS
Vibration, sinusoidal (operational)	9.8	PASS
Electrostatic discharges (operational)	9.9	PASS
Damp heat, steady state (endurance)	9.14	PASS
Vibration, sinusoidal (endurance)	9.15	PASS

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

Annexes according to **EN 54-16:2008**

FIRE DETECTION AND FIRE ALARM SYSTEMS. PART 16: VOICE ALARM CONTROL AND INDICATING EQUIPMENT

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	PASS
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	PASS
Voice alarm condition output (option with requirements)	7.9	PASS

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

Other technical data	
Voltage	100-240 Vac
Frequency	50-60 Hz
AC Power Consumption	500 W
Analog audio inputs	3
Power amplifier Channels	2 amplifiers class D up to 500W at 100V/70V
Line finisher RE-2AS EOL	End of line device for speaker lines
Internal Ethernet card RE-2AS CM1	Communications card
Voice Alarm Panels RE-2AS RVAP	Up to 8 remote devices in ACSI bus
Multipaging Microphones RE-2AS MP8Z	Up to 8 remote devices in ACSI bus