

FIRE SAFETY CERTIFICATION

PRODUCT APPROVAL

No. APF-1553

LGAI TECHNOLOGICAL CENTER S.A. (APPLUS), according to the requirements of the SPC-102 Ed. 5, certifies the performances stated in the technical annex following the reference standard for:

Product range	RE-2AS / RE-2ASBC	
Company	Ravel Electronics Pvt Ltd. 150-A, Electronics Industrial Estate, Perungudi, Chennai-600096, India	A
Manufactured	22/32307695	 Arplus [⊕]
Standard Reference	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". EN 54-16:2008: "Fire detection and fire alarm systems. Part 16: Voice alarm control and indicating equipment".	SPC-102 APF-1553
Product Details and Test Report	Please check at the technical annex	Fire Safety Certification

Renovation / Modification of the initial certificate issued on 27th September 2019

Valid until 31st January 2024

Bellaterra, 4th November 2022



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





Technical Annex Ed. 3 06/05/2022

APF-1553

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

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

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

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
Fault Warning Conditions	8	PASS



Technical Annex Ed. 3 06/05/2022

APF-1553

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