



Notified body No. 1134
asbl **ANPI** vzw
Parc Scientifique Fleming - Granbonpré 1
B-1348 Louvain-la-Neuve

CERTIFICATE OF CONSTANCY OF PERFORMANCE

1134 - CPR – 195

In compliance with *Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011* (the products Construction Products Regulation or CPR), this certificate applies to the construction product:

Voice alarm control and indicating equipment

TOA VX-3000

and the details of the composition: see annex 1 of the EC certificate of constancy of performance with the performances listed in annex 2 and 3 of the EC certificate of constancy of performance and intended use: Fire safety

manufactured by:

TOA ELECTRONICS EUROPE GmbH
Süderstraße 282
DE - 20537 HAMBURG
GERMANY

and produced in the manufacturing plant(s):

ACOUS Corporation
113 Buma,
Maibara-city
Shiga-ken 521-0224
JAPAN

DYNATRON Industrial Co., Ltd
No.89 Din Pin Rd.,
Ray Fong Industrial Area,
Rai Fong District, New Taipei City
TAIWAN

DYNATECH
Fulong 2 Rd, Fulong Industrial,
ShaJing Town, BaoAn
Shenzhen 518125
CHINA

This certificate attests that all provisions concerning the assessment and the verification of constancy performance at system 1 being certified and the performances described in Annex ZA of the standard(s):


EN 54-16:2008

are applied and that

the product fulfils to all here above mentioned and prescribed requirements.

This certificate was first issued on **2016-12-02** and remains valid as a long time as the testing methods and/or for the control of the production in factory included in the harmonized standard, used to evaluate the performances of the declared characteristics, do not change and as neither the product, nor the manufacturing conditions in the plant or the factory production control itself are not modified significantly.

Brussels, the 02nd of December 2016

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Michèle VANDENDOREN
Secretary General

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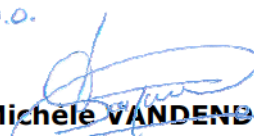
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Annex 1 to CERTIFICATE CONSTANCY OF PERFORMANCE 1134 - CPR – 195

Composition of the Voice alarm control and indicating equipment TOA VX-3000:

Reference	Description	Quantity
VX-3004F	Frame for up to 4 amplifier modules with 4 x 2 speaker line outputs (4 amps drive 2 lines each) (4 zone amplifiers or 3 zone amplifiers and 1 standby amplifier)	at least 1 out of these 3
VX-3008F	Frame for up to 3 amplifier modules with 8 speaker line outputs (2 amps can be divided in any combination to the 8 speaker lines, or speaker lines can switch between the amps, e.g. one amp for paging and one amp for music) (2 zone amplifiers or 1 zone amplifiers and 1 standby amplifier)	
VX-3016F	Frame for up to 2 amplifier modules with 1 x 16 or 2 x 8 speaker line outputs (1 amps can drives 16 lines or 2 amps can drives 8 lines each) (2 zone amplifiers or 1 zone amplifiers and 1 standby amplifier)	
VX-015DA	Digital amplifier module, 150 watts at 100V	at least 1 out of these 3 per VX-30XXF
VX-030DA	Digital amplifier module, 300 watts at 100V	
VX-050DA	Digital amplifier module, 500 watts at 100V	
NX-300W	Audio interface, 2 audio inputs and 2 audio outputs	optional (at least 1 per distributed part of the VACIE)
VX-3000DS CE/CE-GB	Power supply equipment (PSE) (certified: 1134-CPR-137)	at least 1 out of these 2
VX-3150DS-EB	Power supply equipment (PSE) half capacity of VX-3000DS	
RM-300X	Remote microphone, general and emergency	at least 1
RM-210F	Button expansion for RM-300X	optional
RM-200SF	Fireman Microphone	optional
RM-320F	Button expansion for RM-200SF	optional
SX200EL	End of line module for VX-3004F	at least 1 per VX-3004F
VM-300SV	End of line module for VX-3008F and VX-3016F	at least 1 per VX-3008F or VX-3016F
IES-2060	Ethernet Switch, 6 RJ45 ports	Option (for decentralised installation)
IES-2042FX-MM-SC	Ethernet Switch, 4 RJ45 ports, 2 ports for multi-mode fiber-optical cables	
IES-2042FX-SS-SC	Ethernet Switch, 6 RJ45 ports, 2 ports for single-mode fiber-optical cables	
IES-3080 IES-3062GT IES-3062FX-MM-SC IES-3062FX-SS-SC IES-3062GF-MM-SC IES-3062GF-SS-SC	Ethernet Switch with 8 ports	
LC-XB12100P	Battery, 12V, 100 Ah	
CR-15 CR-22 CR-27 CR-35 CR-42	Cabinet Racks	2 (for each VX-3000DS or VX-3150DS)
		at least 1

Brussels, the 02nd of December 2016

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Annex 2 to CERTIFICATE CONSTANCY OF PERFORMANCE 1134 - CPR – 195

Harmonised technical specification		EN 54-16:2008
Essential Characteristics	Performance ^{1) 2)}	Clause
Performance under fire conditions		
- General requirements	pass	4
- General requirements for indications	pass	5
- The voice alarm condition	pass	7
- Voice alarm manual control	pass	10
- Emergency microphone(s)	pass	12
- Signal-to-noise ratio	pass	16.5
- Frequency response of VACIE without microphone(s)	pass	16.6
- Frequency response of VACIE with microphone(s)	pass	16.7
Response delay (response time to fire)		
- Reception and processing of fire signals	pass	7.1
- Delays to entering the voice alarm condition	NA	7.4
- Output to fire alarm devices	NA	7.8
- Emergency microphone(s)	pass	12
Operational reliability		
- General requirements	pass	4
- General requirements for indications	pass	5
- The quiescent condition	pass	6
- The voice alarm condition	pass	7
- Fault warning condition	pass	8
- Disablement condition	NA	9
- Interface to external control device(s)	NA	11
- Emergency microphone(s)	pass	12
- Design requirements	pass	13
- Additional design requirements for software controlled VACIE	pass	14
Durability of operational reliability, temperature resistance		
- Output power	pass	16.4
- Cold (operational)	pass	16.8
Durability of operational reliability, impact and vibration resistance		
- Impact (operational)	pass	16.11
- Vibration, sinusoidal (operational)	pass	16.12
- Vibration, sinusoidal (endurance)	pass	16.13
Durability of operational reliability, electrical stability		
- Supply voltage variation	pass	16.14
- Electromagnetic compatibility (EMC), immunity tests (operational)	pass	16.15
Durability of operational reliability, humidity resistance		
- Damp heat, steady state (operational)	pass	16.9
- Damp heat, steady state (endurance)	pass	16.10
¹⁾ "NPD" theoretically possible; except for durability of characteristics with declared performance		
²⁾ "not applicable" for components to which the requirement does not apply		
³⁾ The list of options with requirements is listed in the Certificate of constancy of performance separately from the table of performance		

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Annex 3 to CERTIFICATE CONSTANCY OF PERFORMANCE 1134 - CPR – 195

The Voice alarm control and indicating equipment TOA VX-3000 includes also the following options with requirements of the EN 54-16:2008

7.6.2	Manual silencing of the voice alarm condition
7.7.2	Manual reset of the voice alarm condition
7.9	Voice alarm condition output
8.4	Indication of faults related to voice alarm zones
10	Voice alarm manual control
12	Emergency microphone(s)
13.14	Redundant power amplifiers

Brussels, the 02nd of December 2016

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