

## **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):

Takex Corporation 9616-2 Ooaza Kawago Wakaki-cho 843-0151 Takeo City Saga Pref 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):

are applied and that

#### EN 54-16:2008

#### 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 20<sup>th</sup> of November 2019



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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-3308WM	Wall mount voice evacuation system	
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)	
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 and 1 standby amplifier)	at least 1 out of these 4
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-
VX-030DA	Digital amplifier module, 300 watts at 100V	30XXF
VX-050DA	Digital amplifier module, 500 watts at 100V	50771
NX-300W	Audio interface, 2 audio inputs and 2 audio outputs	optional
VX-3000DS CE/CE-GB	Power supply equipment (PSE) (certified: 1134-CPR-137)	at least 1 out of these 0
VX-3150DS-EB	Power supply equipment (PSE) half capacity of VX-3000DS	at least 1 out of these 2
BM-300X	Remote microphone, general and emergency	optional
BM-210F	Button expansion for RM-300X	optional
BM-200SE	Fireman Microphone	optional
BM-320E	Button expansion for RM-200SE	optional
SX200EI	End of line module for VX-3004F	optional for VX-3004F
VM-300SV	End of line module for VX-3008F and VX-3016F	option for VX-3008F and VX- 3016F
IES-2060	Ethernet Switch, 6 BJ45 ports	
IFS-2042FX-MM-SC	Ethernet Switch, 4 BJ45 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	Option (for decentralised installation)
LC-XB12100P	Battery, 12V, 100 Ah	2 (for each VX-3000DS or VX- 3150DS)
CR-15 CR-22 CR-27 CR-35 CR-42 MSG-821_N MSG-840_N MSG-830_N Rittal TS 8 – Serie	Cabinet Racks	at least 1
VX-300SV-EB	End of line module for 3 wires	Optional
VX-300SM-EB	Controller for up to 8 VX-300SV-EB	Optional
VX-3065BB O	Battery box for VX-3308WM O	1 for each VX-3308WM Q
LC-X1265P	Battery for VX-3065BB_Q	2 for each VX-3308WM Q
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Brussels, the 20<sup>th</sup> of November 2019



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## **Annex 2 to CERTIFICATE CONSTANCY OF PERFORMANCE** 1134 - CPR - 195

Essential Characteristics         Performance         Clause           Performance under fire conditions         pass         4           - General requirements         pass         5           - The voice alarm manual control         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 the signals         pass         7.1           - Delays to entering the voice alarm condition         NA         7.4           - Output to fire alarm devices         NA         7.8           - General requirements         pass         5           - The voice alarm condition         pass         6           - General requirements         pass         6           - General requirements         pass         7           - General requirements         pass         7           - The voice alarm condition	Harmonised technical specification	EN 54-16:2008	
Performance under fire conditions       pass       4         General requirements       pass       5         General requirements for indications       pass       5         - General requirements for indications       pass       7         - Voice alarm condition       pass       10         Emergency microphone(s)       pass       10         - Emergency response of VACIE without microphone(s)       pass       16.5         - Frequency response of VACIE with microphone(s)       pass       16.6         - Frequency response of VACIE with microphone(s)       pass       16.7         Response delay (response time to fire)       -       -         - Beclaption 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       5         Operational reliability       -       -         - General requirements for indications       pass       5         - The voice alarm condition       pass       5         - The voice alarm condition       pass       12         Operational reliability       pass       12	Essential Characteristics	Performance <sup>1) 2)</sup>	Clause
- General requirements     pass     4       - General requirements for indications     pass     5       - The voice alarm condition     pass     7       - Voice alarm condition     pass     10       - Emergency microphone(s)     pass     12       - Signal-co-noise ratio     pass     16.5       - Frequency response of VACIE without microphone(s)     pass     16.6       - Frequency response of VACIE with microphone(s)     pass     16.6       - 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     pass     12       - General requirements     pass     4       - General requirements     pass     5       - The voice alarm condition     pass     7       - Fault warning condition     pass     7       - Fault warning condition     pass     12       - Disablement condition     pass     12       - Disablement condition     pass     12       - Design requirements     pass     12       - Design requirements     pass     12       - Design requ	Performance under fire conditions		
- 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     5       - The voice alarm condition     pass     6       - The voice alarm condition     pass     7       - Fault warning condition     pass     7       - Fault warning condition     pass     7       - Fault warning condition     pass     7       - The voice alarm condition     pass     7       - Fault warning condition     pass     11       - The voice alarm condition     pass     12 </td <td>- General requirements</td> <td>pass</td> <td>4</td>	- General requirements	pass	4
- 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     6       - The voice alarm condition     pass     6       - The voice alarn condition     pass     7       - Fault warning condition     pass     8       - Disablement condition     pass     12       - Design requirements     pass     12       - Interdace to external control device(s)     NA     9       - Interdace to external control device(s)     pass     13       - Design requirements     pass     14       - Durability of operational reliability, impact and vibration r	- General requirements for indications	pass	5
• Voice alarm manual control     pass     10       • Emergency microphone(s)     pass     12       • Signal-to-noise ratio     pass     16.5       • Frequency response of VACIE with unicrophone(s)     pass     16.7       Response delay (response to tire)     pass     16.7       Response delay (response of the 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     pass     12       • General requirements     pass     5       • The voice alarm condition     pass     7       • The voice alarm condition     pass     7       • Disablement condition     pass     8       • Disablement condition     pass     13       • Additional design requirements for software controlled VACIE     pass     13       • Additional design requirements for software controlled VACIE     pass     16.4       • Cold power     pass     16.4       • Durability of operational reliability,     temperature resistance     16.11       • Uput power     pass     16.4       • Cold (operational)     pass     16.4       • Cold (operational)	- The voice alarm condition	pass	7
- 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)     -     -       - Beception and processing of fire signals     pass     7.1       - Delays to entering the voice alarn condition     NA     7.4       - Output to fire alarm devices     NA     7.4       - Output to fire alarm devices     pass     12       Operational reliability     -     -       - General requirements     pass     6       - The quiescent condition     pass     7       - Fault warning condition     pass     6       - The voice alarn condition     pass     7       - Fault warning condition     pass     7       - Fault warning condition     pass     12       - Disablement condition     pass     12       - Durability of operational reliability, impact and vibration resistance     12       - Output power     pass     13       - Additional design requirements for software controlled VACIE     pass       - Durability of operational reliability, impact and vibration resistance     14       Durability of oper	- Voice alarm manual control	pass	10
Signal-to-noise ratio       pass       16.5         - Frequency response of VACIE without microphone(s)       pass       16.6         - Frequency response of VACIE without microphone(s)       pass       16.7         Response delay (response time to fire)       -       -         - Reception and processing of fire signals       pass       7.1         - Output to fire alarm condition       NA       7.4         - Output to fire alarm devices       NA       7.8         - Emergency microphone(s)       pass       12         Operational reliability       -       -         - General requirements       pass       6         - The voice alarm condition       pass       6         - The quiescent condition       pass       6         - The voice alarm condition       pass       7         - General requirements for indications       pass       6         - The voice alarm condition       pass       7         - Fault warning condition       pass       8         - Disablement condition       pass       11         - Emergency microphone(s)       pass       12         - Design requirements       pass       12         - Design requirements       pass       12	- Emergency microphone(s)	pass	12
-       Frequency response of VACIE with uticrophone(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       pass       12         Operational reliability       -       -       -         -       General requirements for indications       pass       5         -       The voice alarm condition       pass       6         -       The voice alarm condition       pass       6         -       The voice alarm condition       pass       7         -       Fault warning condition       pass       8         -       Disablement condition       pass       11         -       Emergency microphone(s)       pass       12         -       Design requirements for software controlled VACIE       pass       12         -       Design requirements for software controlled VACIE       pass       13         -       Additional design requirements for softwar	- Signal-to-noise ratio	pass	16.5
- Frequency response of VACIE with microphone(s)     pass     16.7       Response delay (response time to fire)     pass     7.1       - 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     5       - The voice alarm condition     pass     6       - The voice alarm condition     pass     6       - The voice alarm condition     pass     6       - The voice alarm condition     pass     7       - Fault warning condition     pass     8       - Disablement condition     pass     8       - Disablement condition     pass     12       - Design requirements     pass     12       - Design requirements     pass     12       - Disablement condition     pass     12       - Disablement condition     pass     12       - Disablements     pass     12       - Design requirements     pass     12       - Design requirements     pass     12       - Design requirements     pass     14 <td><ul> <li>Frequency response of VACIE without microphone(s)</li> </ul></td> <td>pass</td> <td>16.6</td>	<ul> <li>Frequency response of VACIE without microphone(s)</li> </ul>	pass	16.6
Response delay (response time to fire)       pass       7.1         - 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 for indications       pass       5         - The quiescent condition       pass       6         - The voice alarm condition       pass       6         - Fault warning condition       pass       7         - Fault warning condition       pass       7         - Disablement condition       pass       8         - Disablement condition       pass       11         - Emergency microphone(s)       pass       12         - Design requirements       pass       12         - Design requirements for software controlled VACIE       pass       14         Durability of operational reliability, temperature resistance       -       -         - Output power       pass       16.4       -         - Cold (operational)       pass       16.11       -         Durability of operati	- Frequency response of VACIE with microphone(s)	pass	16.7
- 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       7         - Fault warning condition       pass       8         - Disablement condition       pass       11         - Emergency microphone(s)       pass       12         - Design requirements       pass       12         - Design requirements       pass       12         - Design requirements for software controlled VACIE       pass       13         - Additional design requirements for software controlled VACIE       pass       16.4         - Cold (operational)       pass       16.4       11         - Uurability of operational reliability, impact and vibration resistance       pass       16.12	Response delay (response time to fire)		
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- 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     7       - Fault warning condition     pass     8       - Disablement condition     pass     8       - Disablement condition     NA     9       - Interface to external control device(s)     NA     11       - Emergency microphone(s)     pass     12       - Design requirements     pass     12       - Design requirements for software controlled VACIE     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     16.11       - Vibration, sinusoidal (operational)     pass     16.12       - Vibration, sinusoidal (endurance)     pass     16.13       Durability of operational reliability, electrical stability     -     -       - Supply voltage variation     <	- Output to fire alarm devices	NA	7.8
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- General requirements       pass       4         - General requirements for indications       pass       5         - The quiescent condition       pass       6         - The voice alarm condition       pass       6         - The voice alarm 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       16.12       -       -         - Vibration, sinusoidal (endurance)       pass       16.13       -         Durability of operationa	Operational reliability		
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- 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       16.11         - 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       16.14	- The quiescent condition	pass	6
- 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	- The voice alarm condition	pass	7
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- Interface to external control device(s)NA11- Emergency microphone(s)pass12- Design requirementspass13- Additional design requirements for software controlled VACIEpass14Durability of operational reliability, temperature resistancepass14- Output powerpass16.4- Cold (operational)pass16.8Durability of operational reliability, impact and vibration resistance Impact (operational)pass16.11- Vibration, sinusoidal (operational)pass16.12- Vibration, sinusoidal (endurance)pass16.13Durability of operational reliability, electrical stability-16.13- Supply voltage variationpass16.14- Electromagnetic compatibility (EMC), immunity tests (operational)pass16.15	- Disablement condition	NA	9
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- Design requirements       pass       13         - Additional design requirements for software controlled VACIE       pass       14         Durability of operational reliability, temperature resistance       pass       14         - Output power       pass       16.4         - Cold (operational)       pass       16.8         Durability of operational reliability, impact and vibration resistance        16.11         - Impact (operational)       pass       16.12         - Vibration, sinusoidal (operational)       pass       16.12         - Vibration, sinusoidal (endurance)       pass       16.13         Durability of operational reliability, electrical stability       pass       16.14         - Supply voltage variation       pass       16.14         - Electromagnetic compatibility (EMC), immunity tests (operational)       pass       16.15	- Emergency microphone(s)	pass	12
- Additional design requirements for software controlled VACIE       pass       14         Durability of operational reliability, temperature resistance       pass       16.4         - Output power       pass       16.4         - Cold (operational)       pass       16.8         Durability of operational reliability, impact and vibration resistance       16.11         - Impact (operational)       pass       16.12         - Vibration, sinusoidal (operational)       pass       16.12         - Vibration, sinusoidal (endurance)       pass       16.13         Durability of operational reliability, electrical stability       -       16.14         - Supply voltage variation       pass       16.14         - Electromagnetic compatibility (EMC), immunity tests (operational)       pass       16.15	- Design requirements	pass	13
Durability of operational reliability, temperature resistancepass16.4- Output powerpass16.8- Cold (operational)pass16.8Durability of operational reliability, impact and vibration resistance16.11- Impact (operational)pass16.12- Vibration, sinusoidal (operational)pass16.12- Vibration, sinusoidal (endurance)pass16.13Durability of operational reliability, electrical stabilitypass16.13- Supply voltage variationpass16.14- Electromagnetic compatibility (EMC), immunity tests (operational)pass16.15	- Additional design requirements for software controlled VACIE	pass	14
temperature resistancepass16.4- Output powerpass16.4- Cold (operational)pass16.8Durability of operational reliability, impact and vibration resistance16.11- Impact (operational)pass16.12- Vibration, sinusoidal (operational)pass16.12- Vibration, sinusoidal (endurance)pass16.13Durability of operational reliability, electrical stabilitypass16.13- Supply voltage variationpass16.14- Electromagnetic compatibility (EMC), immunity tests (operational)pass16.15	Durability of operational reliability,		
- Output power       pass       16.4         - Cold (operational)       pass       16.8         Durability of operational reliability, impact and vibration resistance        16.1         - Impact (operational)       pass       16.11         - Vibration, sinusoidal (operational)       pass       16.12         - Vibration, sinusoidal (endurance)       pass       16.13         Durability of operational reliability, electrical stability       -       16.13         Durability of operational reliability, electrical stability       -       16.14         - Electromagnetic compatibility (EMC), immunity tests (operational)       pass       16.15	temperature resistance		
- 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     -     16.13       - Supply voltage variation     pass     16.14       - Electromagnetic compatibility (EMC), immunity tests (operational)     pass     16.15	- Output power	pass	16.4
Durability of operational reliability, impact and vibration resistance       pass       16.11         - Impact (operational)       pass       16.12         - Vibration, sinusoidal (operational)       pass       16.13         - Vibration, sinusoidal (endurance)       pass       16.13         Durability of operational reliability, electrical stability       pass       16.14         - Supply voltage variation       pass       16.14         - Electromagnetic compatibility (EMC), immunity tests (operational)       pass       16.15	- Cold (operational)	pass	16.8
- Impact (operational)       pass       16.11         - Vibration, sinusoidal (operational)       pass       16.12         - Vibration, sinusoidal (endurance)       pass       16.13         Durability of operational reliability, electrical stability       -       16.14         - Supply voltage variation       pass       16.14         - Electromagnetic compatibility (EMC), immunity tests (operational)       pass       16.15	Durability of operational reliability, impact and vibration resistance		
- Vibration, sinusoidal (operational)       pass       16.12         - Vibration, sinusoidal (endurance)       pass       16.13         Durability of operational reliability, electrical stability       -       16.14         - Supply voltage variation       pass       16.14         - Electromagnetic compatibility (EMC), immunity tests (operational)       pass       16.15	- Impact (operational)	pass	16.11
- 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	- Vibration, sinusoidal (operational)	pass	16.12
Durability of operational reliability, electrical stability       -         - Supply voltage variation       pass       16.14         - Electromagnetic compatibility (EMC), immunity tests (operational)       pass       16.15	- Vibration, sinusoidal (endurance)	pass	16.13
- Supply voltage variation     pass     16.14       - Electromagnetic compatibility (EMC), immunity tests (operational)     pass     16.15	Durability of operational reliability, electrical stability		
- Electromagnetic compatibility (EMC), immunity tests (operational) pass 16.15	- Supply voltage variation	pass	16.14
	- Electromagnetic compatibility (EMC), immunity tests (operational)	pass	16.15
Durability of operational reliability, humidity resistance	Durability of operational reliability, humidity resistance		
- Damp heat, steady state (operational) pass 16.9	- Damp heat, steady state (operational)	pass	16.9
- Damp heat, steady state (endurance) pass 16.10	- Damp heat, steady state (endurance)	pass	16.10

2)

"not applicable" for components to which the requirement does not apply The list of options with requirements is listed in the Certificate of constancy of performance separately from the table of performance 3)

Brussels, the 20<sup>th</sup> of November 2019

Secretary 2 Pail

T. DOUILLET



# 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 20<sup>th</sup> of November 2019



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