Declaration of Performance

No. 0560-CPR-152190001/01

1.	Unique identification code of the product-type:	**Compact 500**
2.	Type, batch or serial number or other identification	*see Page 3 of this document, see marking on the product components*
3.	Intended use:	Distributed networked voice evacuation system / public address / fire safety
4.	Manufacturer:	Hacousto Holland b.v. Industrieweg 87, 2651BC Berkel en Rodenrijs Netherlands
5.	*not applicable*	
6.	System or systems of assessment:	System 1+
7.	Construction product covered by a harmonised standard:	EN 54-4:1997/A1:2002/A2:2006 EN 54-16:2008
	Notified Body:	Telefication B.V. Edisonstraat 12A, 6902PK Zevenaar Netherlands
	with the Notified Body number	0560
	performed	Determination of the product-type on the basis of type testing (including sampling), type calculation, tabulated values or descriptive documentation of the product, Initial inspection of the manufacturing plant and of FPC, Continuous surveillance, assessment and evaluation of FPC, Audit testing of samples taken before placing the product on the market
	under system	System 1+
	and issued Certificate of Constancy of Performance	0560-CPR-152190001/01
8.	*not applicable*	
9.	Declared performance:	

EN 54-4:1997/A1:2002/A2:2006 Fire Detection and Fire Alarm Systems – Power Supply Equipment		
Essential characteristics	**Performance**	**Harmonised technical specification EN54-4:1997/A1:2002/A2:2006**
General requirements	Pass	4
Functions	Pass	5, 9.2, 9.3
Materials, design and manufacture	Pass	6
Performance of power supply	Pass	4, 5, 6
Operational reliability	Pass	4, 5, 6, 7, 8
Documentation	Pass	7
Marking	Pass	8
Durability of operational reliability: Cold (operational)	Pass	9.5
Durability of operational reliability: Damp heat steady state (operational)	Pass	9.6
Durability of operational reliability: Damp heat steady state (endurance)	Pass	9.14
Durability of operational reliability: Impact (operational)	Pass	9.7
Durability of operational reliability: Vibration, sinusoidal (operational)	Pass	9.8
Durability of operational reliability: Vibration, sinusoidal (endurance)	Pass	9.15
Durability of operational reliability: EMC immunity	Pass	9.9

EN 54-16:2008 Fire Detection and Fire Alarm Systems – Voice Alarm Control and Indicating Equipment		
Essential characteristics	**Performance**	**Harmonised technical specification EN54-16:2008**
General requirements	Pass	4
General requirements for indications	Pass	5
The quiescent condition	Pass	6
Reception and processing of fire signals	Pass	7.1
Indication of the voice alarm condition	Pass	7.2
Audible warning	Pass	7.3
Phased evacuation	Pass	7.5
Silencing and reset of the voice alarm condition	Pass	7.6, 7.7
Voice alarm condition output	Pass	7.9
Reception and processing of fault signals	Pass	8.1
Indication of faults in specified functions	Pass	8.2

Indication of faults related to voice alarm zones	Pass	8.4
System fault	Pass	8.5
Audible indication	Pass	8.6
Reset of fault indications	Pass	8.7
Transmission of the fault warning condition	Pass	8.8
Voice alarm manual control	Pass	10
Interface to external control devices	Pass	11
Emergency microphone(s)	Pass	12
General design requirements	Pass	13.1
Documentation	Pass	13.2
Mechanical design requirements	Pass	13.3
Electrical and other design requirements	Pass	13.4
Integrity of transmission paths	Pass	13.5
Accessibility of indications and controls	Pass	13.6
Indications by means of light emitting indicators	Pass	13.7
Indication colours	Pass	13.9
Audible indications	Pass	13.10
Indicator testing	Pass	13.11
Audio performance	Pass	13.12
Message store	Pass	13.13
Redundant power amplifiers	Pass	13.14
Additional design requirements for software controlled VACIE	Pass	14
Marking	Pass	15
Output power	Pass	16.4
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
Cold (operational)	Pass	16.8
Damp heat steady state (operational)	Pass	16.9
Damp heat steady state (endurance)	Pass	16.10
Impact (operational)	Pass	16.11
Vibration, sinusoidal (operational)	Pass	16.12
Vibration, sinusoidal (endurance)	Pass	16.13
Supply voltage variation (operational)	Pass	16.14
EMC immunity: mains supply voltage variations	Pass	16.15 a)
EMC immunity: mains supply voltage dips and interruptions	Pass	16.15 b)
EMC immunity: Electrostatic discharge(operational)	Pass	16.15 c)
EMC immunity: Radiated electromagnetic fields (operational)	Pass	16.15 d)
EMC immunity: Conducted disturbances induced by electromagnetic fields (operational)	Pass	16.15 e)
EMC immunity: Fast transient bursts (operational)	Pass	16.15 f)
EMC immunity: Slow high energy voltage surge (operational)	Pass	16.15 g)

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.
This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.
Signed for and on behalf of the manufacturer by:

A.J van der Hout – BU manager Hacousto Holland bv (4EVAC)

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29/10/2019

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(place and date of issue)

(signature)

Impact VACIE CPR No. 0560-CPR-152190001/01– system components

Type designation	Description
Controller	Main system controller
DCA2.500	Power amplifier / charger
4E-SW6	6-channel switching zone expander with EOL surveillance
4E-GPIO	In / out expander
4E-FSC	Multimode optical fibre interface
4E-FMWB	Wall-box fireman's microphone station
4E-FMTC	Dual mode commercial / firemen's microphone station with touchscreen
4E-FMT	Fireman's microphone station with touchscreen
4E-FM	Fireman's microphone station
4E-CMT	Commercial microphone station with touchscreen
4E-CMP	Commercial microphone station with pushbuttons
Loopdrive	Loudspeaker loop surveillance system with short circuit isolators
LDB-03	Loopdrive Booster

Impact VACIE – options with requirements

EN54-16	Option
§ 7.3	Audible warning
§ 7.5	Phased evacuation
§ 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 fault related to voice alarm zones
§ 10	Voice alarm manual control
§ 11	Interface to external control device(s)
§ 12	Emergency microphone(s)
§ 13.14	Redundant power amplifiers