NOTIFIED BODY No. 1488
INSTYTUT TECHNIKI BUDOWLANEJ
CERTIFICATION DEPARTMENT
ul. FILTROWA 1, 00-611 WARSZAWA
ph.: +48 (22) 57 96 167, +48 (22) 57 96 168, fax: +48 (22) 57 96 295
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AC 020

CERTIFICATE OF CONSTANCY OF PERFORMANCE
1488-CPR-0620/W

In compliance with Regulation 305/2011/EU 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

Voice alarm control and indicating equipment type

AUTROVOICE MULTIVES

General identification, intended use, essential characteristics and parameters are described in the Annex No. Z-1488-CPR-0620/W which is an integral part of this certificate;

Levels and classes of performance of the product are stated in the Annex No. Z-1488-CPR-0620/W which is an integral part of this certificate.

placed on the market under the name or trade mark of:

Autronica Fire and Security
Bromstadveien 59
N 7483 Trondheim
Norway

and produced in the manufacturing plant:

48-559

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

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 07.11.2017 (updated on 04.06.2019) 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the AVCP methods, nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

HEAD
of the Certification Department

Katarzyna Hatowska, M.Sc. Eng.

DIRECTOR
of Instytut Techniki Budowlanej

Robert Geryło, Ph. D.

Warsaw, 04.06.2019

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PCA
POLSKIE CENTRUM
AKREDYTACJI

CERTYFIKACJA
WYROBÓW

AC 020

Annex No. Z-1488-CPR-0620/W page 1/2

which is an integral part of the certificate No. 1488-CPR-0620/W

Voice alarm control and indicating equipment type AUTROVOICE MULTIVES

List of essential characteristics of construction product:

Essential characteristics of the product	EN 54-16:2008 Clause	Assessment
Performance under fire conditions		
General requirements	4	pass
General requirements for indications	5	pass
The voice alarm condition	7: 7.1-7.2, 7.4-7.9	pass
Voice alarm manual control	10	pass
Emergency microphone(s)	12	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	pass
Response delay (response time to fire)		
Reception and processing of fire signals	7.1	pass
Delays to entering the voice alarm condition	7.4	pass
Output to fire alarm devices	7.8	pass
Emergency microphone(s)	12	pass
Operational reliability		
General requirements	4	pass
General requirements for indications	5	pass
The quiescent condition	6	pass
The voice alarm condition	7	pass
Fault warning condition	8	pass
Disablement condition	9	pass
Interface to external control device(s)	11	pass
Emergency microphone(s)	12	pass
Design requirements	13	pass
Additional design requirements for software controlled VACIE	14	pass
Durability of operational reliability, temperature resistance		
Output power	16.4	pass
Cold (operational)	16.8	pass
Durability of operational reliability, impact and vibration resistance		
Impact (operational)	16.11	pass
Vibration, sinusoidal (operational)	16.12	pass
Vibration, sinusoidal (endurance)	16.13	pass
Durability of operational reliability, electrical stability		
Supply voltage variation	16.14	pass
Electromagnetic compatibility (EMC), immunity tests (operational)	16.15	pass
Durability of operational reliability, humidity resistance		
Damp heat, steady state (operational)	16.9	pass
Damp heat, steady state (endurance)	16.10	pass
Optional functions		
Delays to entering the voice alarm condition	7.4	pass
Phased evacuation	7.5	pass
Manual silencing of the voice alarm condition	7.6.2	pass
Manual reset of the voice alarm condition	7.7.2	pass
Output to fire alarm devices	7.8	pass
Voice alarm condition output	7.9	pass
Indication of faults related to transmission path to the CIE	8.3	pass
Indication of faults related to voice alarm zones	8.4	pass
Disablement conditions	9	pass
Voice alarm manual control	10	pass
Interface to external control device(d)	11	pass
Emergency microphone(s)	12	pass
Redundant power amplifiers	13.14	pass

Declared intended use of the product: Fire Safety

HEAD
of the Certification Department

K. Hatowska

Katarzyna Hatowska, M.Sc. Eng.

DIRECTOR
of Instytut Techniki Budowlanej

Wof bW.

Robert Geryło, Ph. D.

Warsaw, 04.06.2019

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Annex No. Z-1488-CPR-0620/W page 2/2
which is an integral part of the certificate No. 1488-CPR-0620/W

Voice alarm control and indicating equipment type Autrovoice Multives
Basic parameters and components

control units	ABT–CU-8LCD, ABT-CU-8, ABT-CU-11LT, ABT-CU-11LCD
power system management unit	ABT-PF4 power supply units frame, ABT-PS48800 power supply; ABT-PSM48E, ABT-PSM48 power supply manager *(acc. to EN 54-4, certificate no. 1488-CPR-0395/W)*
power supply	230V AC -15+10% (primary), 48V DC (od 40 do 57) (backup)
memory cards	SD memory card, MicroSD, Industrial grade SLC (Single-level cell), MLC (Multi-level cell) min. 128MB
communication card	ABT-xNET-1Gb/WAN/RS
fiber modules	modules technology SFP, SFP WDM (BiDi) oraz SFP CWDM 1.25Gbps;SFP 10/100/1000Base-T UTP; MultiMode / Single Mode Fiber typ złącza SC TX=1550nm/1310nm, TX=1310nm/1550nm, TX=1490nm/1310nm, TX=1310nm/1490nm, TX=1490nm/1550nm, TX=1550nm /1490nm, TX=1510nm/1570nm, TX=1570nm/1510nm; MultiMode/Single Mode mode fiber type SC TX=1550nm/1310nm, TX=1310nm/1550nm, TX=1490nm/1310nm, TX=1310nm/1490nm, TX=1490nm/1550nm, TX=1550nm/1490nm, TX=1510nm/1570nm, TX=1570nm/1510nm with diagnostic connectors DDM, MultiMode/ Single Mode Fiber connectors type LC X=1550nm/1310nmTX=1310nm/1550nm, TX=1490nm/1310nm, TX=1310nm/1490nm, TX=1490nm/1550nm, TX=1550nm/1490nm, TX=1510nm/1570nm, TX=1570nm/1510nm MultiMode / Single Mode; Fiber connectors type LC TX=1550nm/1310nm,RX=1550nm/1310nm, RX=1490nm/1310nm,TX=1310nm/1490nm,TX=1490nm/1550nm, TX=1550nm/1490nm,TX=1510nm/1570nm, TX=1570nm/1510nm with diagnostic connectors DDM, SFP TX=850nm, 1310nm,1550nm connectors LC
amplifiers	ABT-PA8080B (8 x 80W), ABT-PA8080BE (8 x 80W+BGM), ABT-PA8160B (8 x 160W), ABT-PA8160BE (8 x 160W+BGM), ABT-PA2650B (2 x 650W), ABT-PA2650BE (2 x 650W +BGM), ABT-PA1650B (1 x650W), ABT-PA1650BE (1x650W+BGM), ABT-PA4160B (4x160W), ABT-PA4160BE (4x160W+BGM), ABT-PA4080B (4x80W), ABT-PA4080BE (4x80W +BGM) bridgeable of any number of pairs of channels - Class D
amplifier module	ABT-MWT, ABT-MWH
audio transformer	ABT-TR80 – 80W, ABT-TR160 – 160W, ABT-TR650 – 650W
fireman microphone	ABT-DFMS, ABT-DFMS-A
microphone zone	ABT-DMS, ABT-DMS-LCD
microphone extension	ABT-EKB-20M
processor card	ABT-xCPU
junction box	ABT-REG BOX
network switches	Switch PoE Gigabit Netgear Prosafe series, CTC Union Technologies Gigabit Ethernet Managed Switch IGS series, Fast Ethernet Managed Switch IFS series
digital input card into the slot function/control	ABT-xLogIN-8f/ABT-xLogIN-8c
digital output card into the slot function	ABT-xLogOUT-8f/ABT-xLogOUT-8c
function card input 4 AUDIO/output 8 AUDIO/RS485	ABT-xAudIO-4/8-RS
input card 8 AUDIO	ABT-AudI-8
control card 4/2 loudspeaker lines	ABT-xCtrLine-4/ABT-xCtrLine-2
GUI module	ABT-xLCD
audio/RS interface	ABT-ISLE
end of line module	ABT-EOL
volume control	ABT-REG1, ABT-REG2
surge arrester	DEHNrail DR M 2P 150, 255 FM
type of system architecture	autonomous, concentrated, distributed-network
software version	FW 1.1.0
loudspeaker line control method:	EOL method, impedance method, loop method
loudspeaker line voltage (V):	50, 70, 100

Detailed product identification, scope and conditions of use are included in the test reports:
no. LP01-02325/14/Z00NP of 10.03.2015
no. LZP01-02626/16/Z00NZP of 29.12.2016
no. LZP01-00620/19/Z00NZP of 08.02.2019

HEAD of the Certification Department	DIRECTOR of Instytut Techniki Budowlanej
Katarzyna Hatowska, M.Sc. Eng.	Robert Geryło, Ph. D.

Warsaw, 04.06.2019