

## CERTIFICATE OF CONSTANCY OF PERFORMANCE

Issued by DBI Certification, notified body No. 2531.

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

### **BBQ-230 and BBQ-230/IP Sounder VAD with Short Circuit Isolator**

The product fulfils the essential characteristic:

**See Annex 1**

Intended use: Applications related to automatic fire alarm systems

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

**Autronica Fire and Security AS**  
**Bromstadvegen 59**  
**NO-7047 Trondheim**  
**Norway**

and produced in the manufacturing plant:

**CPA10061**

This attests that all provisions concerning the performance described in Annex ZA of the standard(s)

**EN 54-3:2001/A1:2002/A2:2006** : **Fire detection and fire alarm systems - Part 3: Fire alarm devices - Sounders**  
**EN 54-17:2005/AC:2007** : **Fire detection and fire alarm systems - Part 17: Short-circuit isolators**  
**EN 54-23:2010** : **Fire detection and fire alarm systems - Part 23: Fire alarm devices - Visual alarm devices**

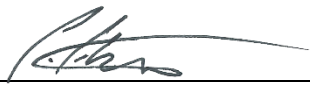
under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

### **CONSTANCY OF PERFORMANCE OF THE CONSTRUCTION PRODUCT.**

This certificate was first issued on 2023-02-16 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.


The attached annexes form part of this certificate.

Date of issue: **2023-02-16.**



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Chris Ellis  
Responsible for evaluation



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Merete Poulsen  
Responsible for certification decision

Annex 1

**EXTENT**

**Type:**  
BBQ-230 and BBQ-230/IP Sounder VAD with Short Circuit Isolator

**Compliant Settings:**

Model number: BBQ-230

Parameter:	Value:
Voltage Max	25V
Voltage Min	17V
Sound Type	Tone A General Alarm
VAD On/Off	On (Flashing at 1Hz)
IP rating	IP21C

Model number: BBQ-230/IP

Parameter:	Value:
Voltage Max	25V
Voltage Min	17V
Sound Type	Tone A General Alarm
VAD On/Off	On (Flashing at 1Hz)
IP rating	IP33C

**Conditions of use:**

Model number BBQ-230: Suitable for indoor applications only (degree of protection Type A/IP21C)

Model number BBQ-230/IP: Suitable for outdoor applications (degree of protection Type B/IP33C)

**Performance**

Essential characteristics	Clauses in EN 54-3:2001/A1:2002/A2:2006	Performance
Performance under fire conditions	4.2, 4.3, 5.2, 5.3	Pass
Operational reliability	4.4, 4.5, 4.6, 5.4	Pass
Durability of operational reliability and response delay; temperature resistance	5.5, 5.6, 5.7, 5.8, 5.9	Pass
Durability of operational reliability; humidity resistance	5.8, 5.9, 5.10	Pass
Durability of operational reliability; corrosion resistance	5.11	Pass
Durability of operational reliability; vibration resistance	5.12 to 5.15	Pass
Durability of operational reliability; electrical stability	5.16	Pass
Durability of operational reliability; resistance to ingress	5.17	Pass

5.6 and 5.10 applies only to outdoor sounders or outdoor voice sounders. Therefore these clauses only apply for model BBQ-230/IP  
5.16 applies only to sounders or voice sounders with active electronic components

Essential characteristics	Clauses in EN 54-17:2005	Performance
Performance under fire conditions	5.2 <sup>1)</sup>	Pass
Operational reliability	4 <sup>2)</sup>	Pass
Durability of operational reliability; temperature resistance	5.4, 5.5	Pass
Durability of operational reliability; vibration resistance	5.9 to 5.12	Pass
Durability of operational reliability; humidity resistance	5.6, 5.7	Pass
Durability of operational reliability; corrosion resistance	5.8	Pass
Durability of operational reliability; electrical stability	5.3, 5.13	Pass
1) This is assuming that the effect of the fire is to cause a short circuit in the transmission path that is protected by these devices 2) There is no provision for connection of ancillary devices and this device does not incorporate a LED indicator. Therefore the clauses 4.2 and 4.3 are not applicable.		

Essential characteristics	Clauses in EN 54-23:2010	Level(s) or class(es)	Notes
Operational reliability:			
Duration of operation	4.2.1	None	Pass
Provision for external conductors	4.2.2		Pass
Flammability of materials	4.2.3		Pass
Enclosure protection	4.2.4		Pass
Access	4.2.5		Pass
Manufacturer's adjustments	4.2.6		Pass
On-site adjustment of behaviour	4.2.7		Pass
Requirements for software controlled devices	4.2.8		Pass
Performance parameters under fire condition:			
Coverage volume	4.3.1	None	Pass
Variation of light output	4.3.2		Pass
Minimum and maximum light intensity	4.3.3		Pass
Light colour	4.3.4		Pass/Red
Light temporal pattern and frequency of flashing	4.3.5		Pass/1 Hz
Marking and data	4.3.6		Pass
Synchronization (option with requirements)	4.3.7		Pass
Durability:			
Temperature resistance:		None	
Dry heat (operational)	4.4.1.1		Pass
Dry heat (endurance)	4.4.1.2		Pass
Cold (operational)	4.4.1.3		Pass
Humidity resistance:			
Damp heat, cyclic (operational)	4.4.2.1		Pass
Damp heat, steady state (endurance)	4.4.2.2		Pass
Damp heat, cyclic (endurance)	4.4.2.3		Pass
Shock and vibration resistance:			
Shock (operational)	4.4.3.1		Pass
Impact (operational)	4.4.3.2		Pass
Vibration (operational)	4.4.3.3		Pass
Vibration (endurance)	4.4.3.4		Pass
Corrosion resistance:			
SO <sub>2</sub> corrosion (endurance)	4.4.4		Pass
Electrical stability:			
EMC, immunity (operational)	4.4.5	Pass	

Annex 2

**TEST DOCUMENTATION**

Accredited Laboratory	Report no.	Date
BRE	TE 243617	2010-10-15
BRE	TE 243617-SW	2010-10-19
BRE	TE 225766	2006-03-30
Intertek	103747439LHD-021	2019-09-02

**TECHNICAL BASIS**

File Number	Title	Date
BBQ-230 BOM	666072FULL-0125 SY/AV/R/RL BBQ-230 AUTRONICA	2019-05-08
BBQ-230-IP BOM	666073FULL-0126 SY/AV/R/RL/WP BBQ-230/IP AUTRONICA	2019-05-08
02C077	Critical Component List	2019-04, Rev. 3.0