

Certificate of Constancy of Performance

0359-CPR-00446

Intertek

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(s).

Product(s): C-TEC Compact Range of Sounders and Visual Alarm Devices
(refer to attached appendix for details and conditions)

Produced by or for: Computationics Limited (Trading as C-TEC)
Challenge Way, Martland Park, Wigan, WN5 0LD

Produced in the manufacturing plant(s): Computationics Limited (Trading as C-TEC)
Challenge Way, Martland Park, Wigan, WN5 0LD

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

EN54-3:2001+A1:2002+A2:2006
Fire detection and fire alarm systems – Sounders

EN54-17:2005
Fire detection and fire alarm systems – Short-circuit isolators

EN54-23:2010
Fire detection and fire alarm systems – Visual alarm devices

Under system 1 are applied and that the product(s) fulfils all the prescribed requirements set out above.

This certificate was first issued on **16th March 2015** and will remain valid as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly

Notified Body
0359

Intertek Testing & Certification Limited
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Oliver Richardson
Certification Manager

Date 16th March 2015
Issue 1

www.intertek.com

Registered No 3272281 Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ, United Kingdom

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Appendix to Certificate of Constancy of Performance 0359-CPR-00446

The details and condition of use for the C-TEC Compact Range of Fire Detectors, placed on the market by:

Compuionics Limited (Trading as C-TEC)
Challenge Way, Martland Park, Wigan, WN5 0LD

To be used in accordance with the supplier's installation instructions and in conjunction with the following bases, ancillaries, sounder tones and sensitivity settings (*where applicable*):

Products compliant with EN54-3:2000+A1:2002+A2:2006

Variant	Description
BF450A/CX/SW	Addressable sounder with isolator
BF451A/CX/SW	Addressable sounder VAD with isolator
BF450A/CX/SR	Addressable sounder with isolator
BF451A/CX/SR	Addressable sounder VAD with isolator

Products compliant with EN54-17:2005

Variant	Description
BF450A/CX/SW	Addressable sounder VAD with isolator
BF451A/CX/SW	Addressable sounder VAD with isolator
BF458A/CX/SW	Addressable VAD with isolator
BF450A/CX/SR	Addressable sounder with isolator
BF451A/CX/SR	Addressable sounder VAD with isolator
BF458A/CX/SR	Addressable VAD with isolator

Products compliant with EN54-23:2010

Variant	Description
BF451A/CX/SW	Addressable sounder VAD with isolator
BF458A/CX/SW	Addressable VAD with isolator
BF451A/CX/SR	Addressable sounder VAD with isolator
BF458A/CX/SR	Addressable VAD with isolator

Bases:

Variant	Description
SBF4080000	Mounting base for /SW variants
SBF4080001	Mounting base for /SR variants

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Compliant settings: EN54-3:2001+A1:2002+A2:2006

Models sounders and sounder beacons are compatible with the following tones and volume settings:-

Primary Tone 1 – Evacuate (550 Hz for 0.5 sec, 825 Hz for 0.5 sec)

Primary Tone 2 – Alternating (925 Hz for 0.25 sec, 626 Hz for 0.25 sec)

Primary Tone 5 – Dutch Slow Sweep (500 Hz to 1200 Hz for 3.5 sec on, 0.5 sec off)

Conditions of use;

Suitable for indoor applications

General Notes:

1. Tested under Intertek project number 101504533.
2. No CE or other type approval is made or inferred outside of the attestation of conformity and the product performance as stipulated on this certificate.

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Appendix to Certificate of Constancy of Performance 0359-CPR-00446 (continued)

Table of performance for EN54-3:2001+A1:2002+A2:2006 Harmonised technical specification			
Essential characteristics	Performance	Clauses	Notes
Performance under fire conditions	Pass	4.2, 4.3, 5.2, 5.3, C.3.1, C.3.2, C.5.1, C.5.2, C5.3	a), b)
Operational reliability	Pass	4.4, 4.5, 4.6, 5.4, C4	
Durability of operational reliability: temperature resistance	Pass	5.5, 5.6, 5.7, 5.8, 5.9	c)
Durability of operational reliability: humidity resistance	Pass	5.8, 5.9, 5.10	c)
Durability of operational reliability: corrosion resistance	Pass	5.11	
Durability of operational reliability: shock and vibration resistance	Pass	5.12, 5.13, 5.14, 5.15	
Durability of operational reliability: electrical stability	Pass	5.16	
Durability of operational reliability: resistance to ingress	Pass	5.17	
<i>Notes;</i>			
a) <i>Clauses C.3, C.4, C.5.1, C.5.2 and C.5.3 are applicable to devices having a voice alarm function. These clauses are not applicable to these devices and so no assessment was carried out.</i>			
b) <i>Clauses C.3.2 and C.5.3 are applicable to devices having a voice alarm function with synchronisation. These clauses are not applicable to these devices and so no assessment was carried out.</i>			
c) <i>Clauses 5.6 and 5.10 are applicable only to devices suitable for outdoor use.</i>			

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**Table of performance for EN54-17:2005
Harmonised technical specification**

Essential characteristics	Performance	Clauses	Notes
Performance under fire conditions	Pass	5.2	a)
Operational reliability	Pass	4	b), c)
Durability of operational reliability; temperature resistance	Pass	5.4, 5.5	
Durability of operational reliability; vibration resistance	Pass	5.9 to 5.12	
Durability of operational reliability; humidity resistance	Pass	5.6, 5.7	
Durability of operational reliability; corrosion resistance	Pass	5.8	
Durability of operational reliability; electrical stability	Pass	5.3, 5.13	

Notes:

a) 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.

b) Clause 4.6 is only applicable if there is provision for on-site adjustment of the short-circuit isolator; an assessment to this clause was not performed.

c) Clause 4.9 is only applicable if the short circuit isolator relies on software to fulfill the requirements of the standard; an assessment to this clause was not performed.

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Table of performance for EN54-23:2010 Harmonised technical specification			
Essential characteristics	Performance	Clauses	Notes
Operational reliability:			
Duration of operation	Pass	4.2.1	
Provision for external conductors	Pass	4.2.2	
Flammability of materials	Pass	4.2.3	
Enclosure protection	Pass	4.2.4	
Access	Pass	4.2.5	
Manufacturer's adjustment	Pass	4.2.6	
On-site adjustment of behaviour	Pass	4.2.7	
Requirements for software controlled devices	Pass	4.2.8	
Performance parameters under fire condition:			
Coverage volume	Pass	4.3.1	
Variation of light output	Pass	4.3.2	
Minimum and maximum light intensity	Pass	4.3.3	
Light colour	White	4.3.4	
Light temporal pattern and frequency of flashing	Pass / 0.5Hz	4.3.5	
Marking and data	Pass	4.3.6	
Synchronization (option with requirements)	Pass	4.3.7	
Durability:			
Temperature resistance:			
Dry heat (operational)	Pass	4.4.1.1	
Dry heat (endurance)	NPD	4.4.1.2	a)
Cold (operational)	Pass	4.4.1.3	
Humidity resistance:			
Damp heat, cyclic (operational)	Pass	4.4.2.1	
Damp heat, steady state (endurance)	Pass	4.4.2.2	
Damp heat, cyclic (endurance)	NPD	4.4.2.3	a)
Shock and vibration resistance			
Shock (operational)	Pass	4.4.3.1	
Impact (operational)	Pass	4.4.3.2	
Vibration (operational)	Pass	4.4.3.3	
Vibration (endurance)	Pass	4.4.3.4	
Corrosion resistance:			
SO ₂ corrosion (endurance)	Pass	4.4.4	
Electrical stability			
EMC, immunity (operational)	Pass	4.4.5	
Notes:			
a) Clauses 4.4.1.2 and 4.4.2.3 are applicable only to devices suitable for outdoor use. No assessment was carried out against these clauses.			

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