



## Declaration of Performance – DOP0000044 EU According to Construction Products Regulation EU N° 305/2011

**1. Unique Product identification code:**

CA402, CA414, CA416, CA408

**2. Type number** allowing identification of the construction product as required pursuant to Article 11(4):

CAST Class P heat detector with short circuit isolator (CA402)  
CAST Multisensor detector with short circuit isolator (CA414)  
CAST Optical smoke detector with short circuit isolator (CA416)  
CAST Detector standard base (CA408)

**3. Intended use** or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

**Models CA402 and CA414:**

Heat detectors – point detectors - for use in Fire detection and fire alarm systems to EN 54-5:2017 + A1:2018

**Models CA414 and CA416:**

Smoke detectors - Point detector using scattered light, transmitted light or ionization - for use in Fire detection and fire alarm systems to EN 54-7: 2018

**Models CA402, CA414, CA416:**

Short-circuit isolators for use in Fire detection and fire alarm systems in buildings to EN 54-17: 2005

**Model CA414:**

Requirements and test methods for multisensor detectors, which respond to smoke and heat, and smoke detectors with more than one smoke sensor for use in Fire detection and fire alarm systems in buildings to CEA 4021: 2003

**4. Name, registered trade name** or registered trademark and contact address of the manufacturer as required pursuant to Article 11(5):

Computationics Limited (C-TEC)  
Challenge Way, Martland Park, Wigan, WN5 0LD. United Kingdom  
Tel: 01942 322744. Fax: 01942 829867

**5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):**

Not Applicable

**6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:**

System 1

**7. Notified body**, in the case of the declaration of performance concerning a construction product covered by a harmonized standard:

Loss Prevention Certification Board (LPCB) (Notified Body Number 2831)  
BRE Global Assurance (Ireland) Limited  
DCU Alpha, Old Finglas Road,  
Glasnevin, Dublin, D11 KXN4  
Ireland



has performed type testing and the initial inspection of the manufacturing plant and of factory production control with continuous surveillance, assessment and approval of the factory production control under system 1 and issued following certificate of constancy of performance:

**CA402:** 2831-CPR-F2271

**CA414:** 2831-CPR-F2270

**CA416:** 2831-CPR-F2269

**8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:**

Not applicable, see item 7

**9(a). Declared performance applicable to models CA402 and CA414:**

All requirements including all Essential Characteristics and the corresponding performances for the intended use or uses indicated in 3. above have been determined as described in the hEN mentioned in the following table.

Technical Specification		EN 54-5: 2017 + A1:2018	
Essential Characteristics	Performance	Clause	
<b>Nominal activation conditions/Sensitivity, Response delay (response time) and Performance under fire conditions</b>			
- Classification	Pass	4.2	
- Position of heat sensitive elements	Pass	4.3	
- Directional dependence	Pass	5.2	
- Static response temperature	Pass	5.3	
- Response times from typical application temperature	Pass	5.4	
- Response times from 25°C	Pass	5.5	
- Response times from high ambient temperatures (dry heat operational)	Pass	5.6	
- Reproducibility	Pass	5.8	
- Test for suffix S detectors	Pass	6.1	
- Test for suffix R detectors	Pass	6.2	
<b>Operational reliability</b>			
- Individual alarm indication	Pass	4.4	
- Connection of auxiliary devices	Pass	4.5	
- Monitoring of detachable detectors	Pass	4.6	
- Manufacturer's adjustments	Pass	4.7	
- On-site adjustment of response behaviour	Pass	4.8	
- Marking	Pass	4.9	
- Data	Pass	4.10	
- Additional requirements for software controlled detectors	Pass	4.11	
<b>Tolerance to supply voltage</b>			
- Variation in supply parameters	Pass	5.7	
<b>Durability of operational reliability and response delay; temperature resistance</b>			
- Cold (operational)	Pass	5.9	
- Dry heat (endurance)	Pass	5.10	
<b>Durability of operational reliability; vibration resistance</b>			
- Shock (operational)	Pass	5.14	
- Impact (operational)	Pass	5.15	
- Vibration, sinusoidal (operational)	Pass	5.16	
- Vibration, sinusoidal (endurance)	Pass	5.17	
<b>Durability of operational reliability; humidity resistance</b>			
- Damp heat, cyclic (operational)	Pass	5.11	
- Damp heat, steady state (endurance)	Pass	5.12	
<b>Durability of operational reliability; corrosion resistance</b>			
- Sulfer dioxide (SO <sub>2</sub> ) corrosion (endurance)	Pass	5.13	
<b>Durability of operational reliability; electrical stability</b>			
- Electromagnetic compatibility (EMC), immunity tests (operational)	Pass	5.18	
<i>Note: CAST detector model number CA414 (Multisensor Fire Detector) also has a declared performance in section 9(b) relating to EN 54-7: 2018.</i>			



**9(b). Declared performance applicable to models CA414 and CA416:**

All requirements including all Essential Characteristics and the corresponding performances for the intended use or uses indicated in 3. above have been determined as described in the hEN mentioned in the following table.

Technical Specification		EN 54-7: 2018
Essential Characteristics	Performance	Clause
<b>Nominal activation conditions/Sensitivity, Response delay (response time) and Performance under fire conditions</b>		
- Response to slowly developing fires	Pass	4.8
- Repeatability	Pass	5.2
- Directional dependence	Pass	5.3
- Reproducibility	Pass	5.4
- Air movement	Pass	5.6
- Dazzling	Pass	5.7
- Fire sensitivity	Pass	5.18
<b>Operational reliability</b>		
- Individual alarm indication	Pass	4.2
- Connection to ancillary devices	Pass	4.3
- Monitoring of detachable detectors	Pass	4.4
- Manufacturer's adjustments	Pass	4.5
- On-site adjustment of response behaviour	Pass	4.6
- Protection against the ingress of foreign bodies	Pass	4.7
- Marking	Pass	4.9
- Data	Pass	4.10
- Additional requirements for software controlled detectors	Pass	4.11
<b>Tolerance to supply voltage</b>		
- Variation in supply parameters	Pass	5.5
<b>Durability of operational reliability and response delay; temperature resistance</b>		
- Dry heat (operational)	Pass	5.8
- Cold (operational)	Pass	5.9
<b>Durability of operational reliability; vibration resistance</b>		
- Shock (operational)	Pass	5.13
- Impact (operational)	Pass	5.14
- Vibration, sinusoidal (operational)	Pass	5.15
- Vibration, sinusoidal (endurance)	Pass	5.16
<b>Durability of operational reliability; humidity resistance</b>		
- Damp heat, steady state (operational)	Pass	5.10
- Damp heat, steady state (endurance)	Pass	5.11
<b>Durability of operational reliability; corrosion resistance</b>		
- Sulfur dioxide (SO <sub>2</sub> ) corrosion (endurance)	Pass	5.12
<b>Durability of operational reliability; electrical stability</b>		
- Electromagnetic compatibility (EMC), immunity tests (operational)	Pass	5.17
<i>Note: CAST detector model number CA414 (Multisensor Fire Detector) also has a declared performance in section 9(a) relating to EN 54-5:2017 + A1:2018.</i>		




**9(c). Declared performance applicable to models CA402, CA414 and CA416:**

All requirements including all Essential Characteristics and the corresponding performances for the intended use or uses indicated in 3. above have been determined as described in the British Standard mentioned in the following table.

Technical Specification		EN 54-17: 2005
Essential Characteristics	Performance	Clause
<b>Performance under fire conditions</b> - Reproducibility <sup>(1)</sup>	Pass	5.2
<b>Operational reliability</b> - General requirements	Pass	4
<b>Durability of operational reliability (temperature resistance)</b> - Dry heat (operational) - Cold (operational)	Pass	5.4
	Pass	5.5
<b>Durability of operational reliability (vibration resistance)</b> - Shock (operational) - Impact (operational) - Vibration, sinusoidal (operational) - Vibration, sinusoidal (endurance)	Pass	5.9
	Pass	5.10
	Pass	5.11
	Pass	5.12
<b>Durability of operational reliability (humidity resistance)</b> - Damp heat, cyclic (operational) - Damp heat, steady state (operational)	Pass	5.6
	Pass	5.7
<b>Durability of operational reliability (corrosion resistance)</b> - Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)	Pass	5.8
<b>Durability of operational reliability (electrical stability)</b> - Variation in supply voltage - Electromagnetic Compatibility (EMC), Immunity tests (operational)	Pass	5.3
	Pass	5.13

<sup>(1)</sup> 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.

**10. Empowered Signatory of Company**

Name: Daniel Foster  
Position: Head of Science  
Signature:   
Date: 1 March 2022