



## **Declaration of Performance – DOP0000093 EU** **According to Construction Products Regulation EU N° 305/2011**

### **1. Unique Product identification code:**

CP411VV, CP411BVV, CP411VVR, CP411BVVR, CP411TV, CP411BTv, CP411TVR, CP411BTVR, CP414VV, CP414BVV, CP414VVR, CP414BVVR, CP414TV, CP414BTv, CP414TVR, CP414BTVR

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

- CP411VV CAST Pro VAD Ceiling Voice Sounder; short circuit isolator; Multi-sensor detector with CO; IP21C; white enclosure
- CP411BVV CAST Pro VAD Ceiling Voice Sounder; short circuit isolator; Multi-sensor detector with CO; IP21C; black enclosure
- CP411VVR CAST Pro Red VAD Ceiling Voice Sounder; short circuit isolator; Multi-sensor detector with CO; IP21C; white enclosure
- CP411BVVR CAST Pro Red VAD Ceiling Voice Sounder; short circuit isolator; Multi-sensor detector with CO; IP21C; white enclosure
- CP411TV CAST Pro VAD Ceiling Tone Sounder; short circuit isolator; Multi-sensor detector with CO; IP21C; white enclosure
- CP411BTv CAST Pro VAD Ceiling Tone Sounder; short circuit isolator; Multi-sensor detector with CO; IP21C; black enclosure
- CP411TVR CAST Pro Red VAD Ceiling Tone Sounder; short circuit isolator; Multi-sensor detector with CO; IP21C; white enclosure
- CP411BTVR CAST Pro Red VAD Ceiling Tone Sounder; short circuit isolator; Multi-sensor detector with CO; IP21C; black enclosure
- CP414VV CAST Pro VAD Ceiling Voice Sounder; short circuit isolator; Multi-sensor detector; IP21C; white enclosure
- CP414BVV CAST Pro VAD Ceiling Voice Sounder; short circuit isolator; Multi-sensor detector; IP21C; black enclosure
- CP414VVR CAST Pro Red VAD Ceiling Voice Sounder; short circuit isolator; Multi-sensor detector; IP21C; white enclosure
- CP414BVVR CAST Pro Red VAD Ceiling Voice Sounder; short circuit isolator; Multi-sensor detector; IP21C; black enclosure
- CP414TV CAST Pro VAD Ceiling Tone Sounder; short circuit isolator; Multi-sensor detector; IP21C; white enclosure
- CP414BTv CAST Pro VAD Ceiling Tone Sounder; short circuit isolator; Multi-sensor detector; IP21C; black enclosure
- CP414TVR CAST Pro Red VAD Ceiling Tone Sounder; short circuit isolator; Multi-sensor detector; IP21C; white enclosure
- CP414BTVR CAST Pro Red VAD Ceiling Tone Sounder; short circuit isolator; Multi-sensor detector; IP21C; black enclosure

### **3. Intended use(s) as foreseen by the manufacturer:**

For use in Fire detection & Fire alarm systems installed in and around buildings

### **4. Registered trade name and contact address of the manufacturer:**

Computationics Limited (C-TEC)  
Challenge Way, Martland Park, Wigan, WN5 0LD. United Kingdom

### **6. System(s) of AVCP:**

System 1

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

KIWA (Notified body number 0063)  
Wilmersdorf 50 7327 AC Apeldoorn The Netherlands

**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:**

|                    |                                                                                |
|--------------------|--------------------------------------------------------------------------------|
| 0063-CPR-212190016 | CP411VV, CP411BVV, CP411VVR, CP411BVVR, CP411TV, CP411BTv, CP411TVR, CP411BTVR |
| 0063-CPR-242190011 | CP414VV, CP414BVV, CP414VVR, CP414BVVR, CP414TV, CP414BTv, CP414TVR, CP414BTVR |

### **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 all models:**

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

| <b>Technical Specification</b><br><b>Product Description:</b> Point Heat Detectors<br><b>Intended use:</b> Fire detection & Fire alarm systems installed in and around buildings                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                    | <b>EN 54-5:<br/>2017 + A1:2018</b>                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>Essential Characteristics</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Performance</b>                                                                 | <b>Clause</b>                                                      |
| <b>Nominal activation conditions/Sensitivity, Response delay (response time) and Performance under fire conditions</b> <ul style="list-style-type: none"><li>- Classification</li><li>- Position of heat sensitive elements</li><li>- Directional dependence</li><li>- Static response temperature</li><li>- Response times from typical application temperature</li><li>- Response times from 25°C</li><li>- Response times from high ambient temperatures (dry heat operational)</li><li>- Reproducibility</li><li>- Test for suffix S detectors</li><li>- Test for suffix R detectors</li></ul> | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>NOT TESTED<br>Pass | 4.2<br>4.3<br>5.2<br>5.3<br>5.4<br>5.5<br>5.6<br>5.8<br>6.1<br>6.2 |
| <b>Operational reliability</b> <ul style="list-style-type: none"><li>- Individual alarm indication</li><li>- Connection of auxiliary devices</li><li>- Monitoring of detachable detectors</li><li>- Manufacturer's adjustments</li><li>- On-site adjustment of response behaviour</li><li>- Marking</li><li>- Data</li><li>- Additional requirements for software controlled detectors</li></ul>                                                                                                                                                                                                   | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass                       | 4.4<br>4.5<br>4.6<br>4.7<br>4.8<br>4.9<br>4.10<br>4.11             |
| <b>Tolerance to supply voltage</b> <ul style="list-style-type: none"><li>- Variation in supply parameters</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Pass                                                                               | 5.7                                                                |
| <b>Durability of operational reliability and response delay; temperature resistance</b> <ul style="list-style-type: none"><li>- Cold (operational)</li><li>- Dry heat (endurance)</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                        | Pass<br>Pass                                                                       | 5.9<br>5.10                                                        |
| <b>Durability of operational reliability; vibration resistance</b> <ul style="list-style-type: none"><li>- Shock (operational)</li><li>- Impact (operational)</li><li>- Vibration, sinusoidal (operational)</li><li>- Vibration, sinusoidal (endurance)</li></ul>                                                                                                                                                                                                                                                                                                                                  | Pass<br>Pass<br>Pass<br>Pass                                                       | 5.14<br>5.15<br>5.16<br>5.17                                       |
| <b>Durability of operational reliability; humidity resistance</b> <ul style="list-style-type: none"><li>- Damp heat, cyclic (operational)</li><li>- Damp heat, steady state (endurance)</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                  | Pass<br>Pass                                                                       | 5.11<br>5.12                                                       |
| <b>Durability of operational reliability; corrosion resistance</b> <ul style="list-style-type: none"><li>- Sulfer dioxide (SO<sub>2</sub>) corrosion (endurance)</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                         | Pass                                                                               | 5.13                                                               |
| <b>Durability of operational reliability; electrical stability</b> <ul style="list-style-type: none"><li>- Electromagnetic compatibility (EMC), immunity tests (operational)</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                             | Pass                                                                               | 5.18                                                               |
| <b>Note:</b> Approved modes:-<br>CP402 – Heat detector, modes 3, 4 ,5<br>CP414 – Heat & Optical detector, modes 3 – 8 inclusive<br>CP411 – Heat, Optical & CO detector, modes 3 – 10, 12                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                    |                                                                    |



**9(b). Declared performance applicable to all models:**

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

| <b>Technical Specification</b>                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                              | <b>EN 54-7: 2018</b>                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------|
| <b>Product Description:</b> Point Smoke Detectors that operate using scattered light, transmitted light or ionisation                                                                                                                                                                                                                                                                                                                                       |                                                                              |                                                               |
| <b>Intended use:</b> Fire detection & Fire alarm systems installed in and around buildings                                                                                                                                                                                                                                                                                                                                                                  |                                                                              |                                                               |
| <b>Essential Characteristics</b>                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Performance</b>                                                           | <b>Clause</b>                                                 |
| <b>Nominal activation conditions/Sensitivity, Response delay (response time) and Performance under fire conditions</b> <ul style="list-style-type: none"><li>- Response to slowly developing fires</li><li>- Repeatability</li><li>- Directional dependence</li><li>- Reproducibility</li><li>- Air movement</li><li>- Dazzling</li><li>- Fire sensitivity</li></ul>                                                                                        | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass                         | 4.8<br>5.2<br>5.3<br>5.4<br>5.6<br>5.7<br>5.18                |
| <b>Operational reliability</b> <ul style="list-style-type: none"><li>- Individual alarm indication</li><li>- Connection to ancillary devices</li><li>- Monitoring of detachable detectors</li><li>- Manufacturer's adjustments</li><li>- On-site adjustment of response behaviour</li><li>- Protection against the ingress of foreign bodies</li><li>- Marking</li><li>- Data</li><li>- Additional requirements for software controlled detectors</li></ul> | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass | 4.2<br>4.3<br>4.4<br>4.5<br>4.6<br>4.7<br>4.9<br>4.10<br>4.11 |
| <b>Tolerance to supply voltage</b> <ul style="list-style-type: none"><li>- Variation in supply parameters</li></ul>                                                                                                                                                                                                                                                                                                                                         | Pass                                                                         | 5.5                                                           |
| <b>Durability of operational reliability and response delay; temperature resistance</b> <ul style="list-style-type: none"><li>- Dry heat (operational)</li><li>- Cold (operational)</li></ul>                                                                                                                                                                                                                                                               | Pass<br>Pass                                                                 | 5.8<br>5.9                                                    |
| <b>Durability of operational reliability; vibration resistance</b> <ul style="list-style-type: none"><li>- Shock (operational)</li><li>- Impact (operational)</li><li>- Vibration, sinusoidal (operational)</li><li>- Vibration, sinusoidal (endurance)</li></ul>                                                                                                                                                                                           | Pass<br>Pass<br>Pass<br>Pass                                                 | 5.13<br>5.14<br>5.15<br>5.16                                  |
| <b>Durability of operational reliability; humidity resistance</b> <ul style="list-style-type: none"><li>- Damp heat, steady state (operational)</li><li>- Damp heat, steady state (endurance)</li></ul>                                                                                                                                                                                                                                                     | Pass<br>Pass                                                                 | 5.10<br>5.11                                                  |
| <b>Durability of operational reliability; corrosion resistance</b> <ul style="list-style-type: none"><li>- Sulfur dioxide (SO<sub>2</sub>) corrosion (endurance)</li></ul>                                                                                                                                                                                                                                                                                  | Pass                                                                         | 5.12                                                          |
| <b>Durability of operational reliability; electrical stability</b> <ul style="list-style-type: none"><li>- Electromagnetic compatibility (EMC), immunity tests (operational)</li></ul>                                                                                                                                                                                                                                                                      | Pass                                                                         | 5.17                                                          |
| Note: Approved modes:-<br>CP416 – Optical detector modes – 1, 2<br>CP414 – Heat & Optical detector modes 1, 2, 6, 7, 8<br>CP411 – Heat, Optical & CO detector, modes 1, 2, 6 – 12 inclusive                                                                                                                                                                                                                                                                 |                                                                              |                                                               |



**9(c). Declared performance applicable to all models:**

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

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



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.

Declaration of Performance • Approved Document No. DOP0000093EU R3 • Page 5 of 6



**9(e). Declared performance applicable to all models:**

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.

| <b>Harmonised Technical Specification</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                            | <b>EN 54-23: 2010</b>                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description:</b> Fire detection and fire alarm systems – Alarm devices – Visual alarm devices (VADs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                            |                                                                                                                                              |
| <b>Intended use:</b> Fire detection & Fire alarm systems installed in and around buildings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                            |                                                                                                                                              |
| <b>Essential Characteristics</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Performance</b>                                                                                         | <b>Clause</b>                                                                                                                                |
| <b>Operational reliability</b> <ul style="list-style-type: none"><li>- Duration of operation</li><li>- Provision for external conductors</li><li>- Flammability of materials</li><li>- Enclosure protection</li><li>- Access</li><li>- Manufacturer's adjustments</li><li>- On-site adjustment of behaviour</li><li>- Requirements for software controlled devices</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass                                               | 4.2.1<br>4.2.2<br>4.2.3<br>4.2.4<br>4.2.5<br>4.2.6<br>4.2.7<br>4.2.8                                                                         |
| <b>Performance parameters under fire condition</b> <ul style="list-style-type: none"><li>- Coverage volume</li><li>- Variation of light output</li><li>- Minimum and maximum light intensity</li><li>- Light colour</li><li>- Light temporal pattern and frequency of flashing</li><li>- Marking and data</li><li>- Synchronisation (option with requirements)</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Pass<br>Pass<br>Pass<br>White / Red<br>Pass/0.5Hz<br>Pass<br>Pass                                          | 4.3.1<br>4.3.2<br>4.3.3<br>4.3.4<br>4.3.5<br>4.3.6<br>4.3.7                                                                                  |
| <b>Durability</b><br><b>Temperature resistance:</b> <ul style="list-style-type: none"><li>- Dry heat (operational)</li><li>- Dry heat (endurance)</li><li>- Cold (operational)</li></ul> <b>Humidity resistance:</b> <ul style="list-style-type: none"><li>- Damp heat, cyclic (operational)</li><li>- Damp heat, steady state (endurance)</li><li>- Damp heat, cyclic (endurance)</li></ul> <b>Shock and vibration resistance:</b> <ul style="list-style-type: none"><li>- Shock (operational)</li><li>- Impact (operational)</li><li>- Vibration (operational)</li><li>- Vibration (endurance)</li></ul> <b>Corrosion resistance:</b> <ul style="list-style-type: none"><li>- SO2 corrosion (endurance)</li></ul> <b>Electrical stability:</b> <ul style="list-style-type: none"><li>- EMC, immunity (operational)</li></ul> | Pass<br>NPD<br>Pass<br><br>Pass<br>Pass<br>NPD<br><br>Pass<br>Pass<br>Pass<br>Pass<br><br>Pass<br><br>Pass | 4.4.1.1<br>4.4.1.2<br>4.4.1.3<br><br>4.4.2.1<br>4.4.2.2<br>4.4.2.3<br><br>4.4.3.1<br>4.4.3.2<br>4.4.3.3<br>4.4.3.4<br><br>4.4.4<br><br>4.4.5 |
| Meets the requirements of EN 54-23 for the following: <ul style="list-style-type: none"><li>- Category C-3-9.4 or O-C-1.9-4 (red VAD)</li><li>- Flash rate 0.5Hz</li><li>- Synchronisation</li><li>- Operating voltage range 28-40 Vdc</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                            |                                                                                                                                              |

Signed for and on behalf of Computationics Ltd trading as C-TEC Ltd

**Daniel Foster**  
Head of Science  
Wigan – 05.08.2024