Protec Fire Detection plc

Declaration of Performance (DoP)

CE

According to Construction Products Regulation (EU) No 305/2011
Declaration number: **PFD-CPR-0075**

1. Unique identification code of the product-type:

   3508 8 Zone Conventional Fire Alarm Control Panel

2. Identification of the construction product as required under Article 11(4) of the CPR:

   3508 8 Zone Conventional Control and Indicating Equipment

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

   Control and indicating equipment for fire detection and fire alarm systems in buildings

4. Name and address of the manufacturer as required under Article 11(5):

   Protec Fire Detection plc, Protec House, Churchill Way, Nelson, Lancashire, BB9 6RT, ENGLAND
   Telephone number: + 44 (0)1282 717171
   Fax number: +44 (0)1282 717273
   Web: www.protec.co.uk

5. Name and contact address of authorized representative whose mandate covers the tasks specified in Article 12(2)

   Alan Palmer – Group Conformity Manager (address as above)

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

   System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

   Notified Body: BSI, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes, England MK5 8PP. Tel: +44 845 080 9000.
   Website : www.bsigroup.co.uk
   Notified Body number : 0086

   performed the type testing and initial inspection of the manufacturing plant and of factory production control with continuous surveillance, assessment and evaluation of factory production control under system 1 and issued the following EC certificate of conformity: **0086-CPD-575026**

8. In the case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued: (**Not applicable, see item 7)**

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9. Declared performance:

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

Essential characteristics	Performance	Harmonised technical specification (hEN)	
Performance under fire conditions			
General requirements	Pass	4	EN 54-2:1997 + A1 +AC: 2006
General requirements for indications	Pass	5	EN 54-2:1997 + A1+AC: 2006
The fire alarm condition	Pass	7	EN 54-2:1997 + A1 +AC: 2006
Response Delay (response time to fire)			
Reception and processing of fire signals	Pass	7.1	EN 54-2:1997 + A1 +AC: 2006
Output of the fire alarm condition	Pass	7.7	EN 54-2:1997 + A1 +AC : 2006
Operational Reliability			
General requirements	Pass	4	EN 54-2:1997 + A1 +AC : 2006
General requirements for indications	Pass	5	EN 54-2:1997 + A1 +AC : 2006
The quiescent condition	Pass	6	EN 54-2:1997 + A1 +AC : 2006
The fire alarm condition	Pass	7	EN 54-2:1997 + A1 +AC : 2006
Fault warning condition	Pass	8	EN 54-2:1997 + A1 +AC : 2006
Disabled condition	Pass	9	EN 54-2:1997 + A1 +AC : 2006
Test Condition	Pass	10	EN 54-2:1997 + A1 +AC : 2006
Design requirements	Pass	12	EN 54-2:1997 + A1 +AC : 2006
Additional design requirements for software controlled control and indicating equipments	Pass	13	EN 54-2:1997 + A1 +AC : 2006
Marking	Pass	14	EN 54-2:1997 + A1 +AC : 2006
Durability of Operational Reliability			
Cold (operational)	Pass	15.4	EN 54-2:1997 + A1 +AC : 2006
Damp heat, steady state (operational)	Pass	15.5	EN 54-2:1997 + A1 +AC : 2006
Impact(operational)	Pass	15.6	EN 54-2:1997 + A1 +AC : 2006
Vibration, sinusoidal (operational)	Pass	15.7	EN 54-2:1997 + A1 +AC : 2006
Electromagnetic Compatibility (EMC), Immunity tests (operational)	Pass	15.8	EN 54-2:1997 + A1 +AC : 2006
Supply voltage variations	Pass	15.13	EN 54-2:1997 + A1 +AC : 2006
Damp heat, steady state (endurance)	Pass	15.14	EN 54-2:1997 + A1 +AC : 2006
Vibration, sinusoidal (endurance)	Pass	15.15	EN 54-2:1997 + A1 +AC : 2006

Essential characteristics	Performance	Harmonised technical specification (hEN)	
Performance of power supply			
General requirements	Pass	4	EN 54-4:1997 + A1 +A2
Functions	Pass	5	EN 54-4:1997 + A1 +A2
Materials, design and manufacture	Pass	6	EN 54-4:1997 + A1 +A2
Operational Reliability			
General requirements	Pass	4	EN 54-4:1997 + A1 +A2
Functions	Pass	5	EN 54-4:1997 + A1 +A2
Materials, design and manufacture	Pass	6	EN 54-4:1997 + A1 +A2
Documentation	Pass	7	EN 54-4:1997 + A1 +A2
Marking	Pass	8	EN 54-4:1997 + A1 +A2
Durability of Operational Reliability			
Cold (operational)	Pass	9.5	EN 54-4:1997 + A1 +A2
Damp heat, steady stat (operational)	Pass	9.6	EN 54-4:1997 + A1 +A2
Impact (operational)	Pass	9.7	EN 54-4:1997 + A1 +A2
Vibration, sinusoidal (operational)	Pass	9.8	EN 54-4:1997 + A1 +A2
Electromagnetic Compatibility (EMC), Immunity tests (operational)	Pass	9.9	EN 54-4:1997 + A1 +A2
Damp heat, steady state (endurance)	Pass	9.14	EN 54-4:1997 + A1 +A2
Vibration, sinusoidal (endurance)	Pass	9.15	EN 54-4:1997 + A1 +A2

10. The performance of the product indentified in (1) and (2), is in conformity with the declared performance in (9). This declaration of performance is issued under the sole responsibility of the manufacturer indentified in (4)

Declaration of Conformity

This Declaration of Performance also serves as a **CE Declaration of Conformity** for the product regarding the following additional European Directives:

- **Electromagnetic Compatibility Regulation** 2006 SI No.2006/3148. (which implements the Council Directive 2004/108/EC "the EMC Directive")

  European Harmonised standards (hEN):

  EN 50130-4:2011 (immunity tests in conjunction with external type testing) Pass

  IEC EN 61000-4-2:2009, Electromagnetic compatibility (EMC)- Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test - Pass

  IEC EN 61000-4-3:2006+A1+A2, Electromagnetic compatibility (EMC)- Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test - Pass

  IEC EN 61000-4-4:2004, Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test - Pass

  IEC EN 61000-4-5:2006, Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test - Pass

  IEC EN 61000-4-6:2009, Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields - Pass

- **Electrical Equipment (Safety) Regulation** 1994 SI 3260 (which implements Council Directive 2006/95/EC the "Low Voltage Directive"):

  European Harmonised standard (hEN): **EN 60950-1:2006/A11:2009**

- **The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment** Regulations 2012 No. 3032 (which implements Council Directive 2011/65/EU the "RoHS2 Directive"):

I hereby declare that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications. The named product complies with all applicable Essential Requirements of the Directives.

Signed for and on behalf of the manufacturer:

Khellaffariz

Name: Dr Fariz Khellaf
Position: Technical Director

Protec Fire Detection PLC,
Lomeshaye Industrial Estate,
Churchill Way, Nelson.
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