

Certificate of Constancy of Performance

This is to certify that:

Protec Fire Detection Plc
Protec House
Churchill Way
Lomeshaye Industrial Estate
Nelson
BB9 6RT
United Kingdom

Holds Certificate Number:

2797 CPR 698336

In respect of:

EN 54-3: 2001, EN 54-5: 2000 , EN 54-7: 2000 and EN 54-17: 2005
Fire detection and fire alarm systems. Multi detector with sounder and isolator functions

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 above construction product. This certificate attests that all the provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the above standard(s) 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(s). This certificate was first issued on the date below 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the AVCP methods, nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

For and on behalf of BSI, a Notified Body for the above Regulation (Notified Body Number 2797):

Drs. Dave Hagenaaars, Managing Director

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Latest Issue: 2021-04-06

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Certificate of Constancy of Performance

No. 2797 CPR 698336

Manufacturing Plant

Protec Fire Detection plc
Protec House
Churchill Way
Lomeshaye Industrial Estate
Nelson
BB9 6RT
United Kingdom

Product Information

EN 54-3:2001+A1:2002+A2:2006, EN 54-5:2000+A1:2002, EN 54-7:2000+A1:2002+A2:2006 and EN 54-17:2005+AC:2007

Model Reference

6000PLUS/OPHTCO/TSL

Type

Analogue addressable indoor multisensor and CO detector with talking sounder, short circuit isolator and beacon
(Bases 6000PLUS/BASE, 6000PLUS/FFBASE, N28-075-01 and N28-075-02)

Notes:

- 1) Meets the requirements of BS EN 54-5: 2000 at Class A2
- 2) Meets the requirements of BS EN 54-7: 2000 at medium and low sensitivity settings
- 3) Following tones meet the requirements of BS EN 54-3: 2001 at maximum volume setting
 - i) Continuous 990Hz
 - ii) Warble 990Hz for 250ms and 730Hz for 250ms
 - iii) Bell 800Hz
 - iv) Voice message
(F_EVAC2: Female voice "evacuation message" V2, "Attention, attention. This is an emergency. Please leave the building by the nearest available exit")
- 4) CO and beacon functionality is outside the scope of this approval

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6000PLUS/OPHTCO/SL

Analogue addressable indoor multisensor and CO detector with sounder, short circuit isolator and beacon
(Bases 6000PLUS/BASE, 6000PLUS/FFBASE, N28-075-01 and N28-075-02)

Notes:

- 1) Meets the requirements of BS EN 54-5: 2000 at Class A2
- 2) Meets the requirements of BS EN 54-7: 2000 at medium and low sensitivity settings
- 3) Following tones meet the requirements of BS EN 54-3: 2001 at maximum volume setting
 - i) Continuous 990Hz
 - ii) Warble 990Hz for 250ms and 730Hz for 250ms
- 4) CO and beacon functionality is outside the scope of this approval

6000PLUS/OPHTCO/TSLX

Analogue addressable indoor multisensor and CO detector with talking sounder, short circuit isolator and beacon (Export version)
(Bases 6000PLUS/BASE, 6000PLUS/FFBASE, N28-075-01 and N28-075-02)

Notes:

- 1) Meets the requirements of BS EN 54-5: 2000 at Class A2
- 2) Meets the requirements of BS EN 54-7: 2000 at medium and low sensitivity settings
- 3) Following tones meet the requirements of BS EN 54-3: 2001 at maximum volume setting
 - i) Continuous 990Hz
 - ii) Warble 990Hz for 250ms and 730Hz for 250ms
 - iii) Bell 800Hz
 - iv) Dutch Whoop, 500-1500Hz over 3s
- 4) CO and beacon functionality is outside the scope of this approval

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6000PLUS/OPHTCO/S

Analogue addressable indoor multisensor and CO detector with sounder and short circuit isolator
(Bases 6000PLUS/BASE, 6000PLUS/FFBASE, N28-075-01 and N28-075-02)

Notes:

- 1) Meets the requirements of BS EN 54-5: 2000 at Class A2
- 2) Meets the requirements of BS EN 54-7: 2000 at medium and low sensitivity settings
- 3) Following tones meet the requirements of BS EN 54-3: 2001 at maximum volume setting
 - i) Continuous 990Hz
 - ii) Warble 990Hz for 250ms and 730Hz for 250ms
- 4) CO and beacon functionality is outside the scope of this approval

6000PLUS/OPHTCO/SX

Analogue addressable indoor multisensor and CO detector with sounder and short circuit isolator (Export version)
(Bases 6000PLUS/BASE, 6000PLUS/FFBASE, N28-075-01 and N28-075-02)

Notes:

- 1) Meets the requirements of BS EN 54-5: 2000 at Class A2
- 2) Meets the requirements of BS EN 54-7: 2000 at medium and low sensitivity settings
- 3) Following tones meet the requirements of BS EN 54-3: 2001 at maximum volume setting
 - i) Continuous 990Hz
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6000PLUS/OPHTCO

Analogue addressable indoor multisensor and CO detector with short circuit Isolator
(Bases 6000PLUS/BASE, 6000PLUS/FFBASE, N28-075-01 and N28-075-02)

Notes:

- 1) Meets the requirements of BS EN 54-5: 2000 at Class A2
- 2) Meets the requirements of BS EN 54-7: 2000 at medium and low sensitivity settings
- 3) CO and beacon functionality is outside the scope of this approval

6000PLUS/OPHT/TSL

Analogue addressable indoor multisensor detector with talking sounder, short circuit isolator and beacon
(Bases 6000PLUS/BASE, 6000PLUS/FFBASE, N28-075-01 and N28-075-02)

Notes:

- 1) Meets the requirements of BS EN 54-5: 2000 at Class A2
- 2) Meets the requirements of BS EN 54-7: 2000 at medium and low sensitivity settings
- 3) Following tones meet the requirements of BS EN 54-3: 2001 at maximum volume setting
 - i) Continuous 990Hz
 - ii) Warble 990Hz for 250ms and 730Hz for 250ms
 - iii) Bell 800Hz
 - iv) Voice message
(F_EVAC2: Female voice "evacuation message" V2, "Attention, attention. This is an emergency. Please leave the building by the nearest available exit")
- 4) Beacon functionality is outside the scope of this approval

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6000PLUS/OPHT/TS

Analogue addressable indoor multisensor detector with talking sounder and short circuit isolator
(Bases 6000PLUS/BASE, 6000PLUS/FFBASE, N28-075-01 and N28-075-02)

Notes:

- 1) Meets the requirements of BS EN 54-5: 2000 at Class A2
- 2) Meets the requirements of BS EN 54-7: 2000 at medium and low sensitivity settings
- 3) Following tones meet the requirements of BS EN 54-3: 2001 at maximum volume setting
 - i) Continuous 990Hz
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(F_EVAC2: Female voice "evacuation message" V2, "Attention, attention. This is an emergency. Please leave the building by the nearest available exit")
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6000PLUS/OPHT/TSX

Analogue addressable indoor multisensor detector with talking sounder and short circuit isolator (Export version)
(Bases 6000PLUS/BASE, 6000PLUS/FFBASE, N28-075-01 and N28-075-02)

Notes:

- 1) Meets the requirements of BS EN 54-5: 2000 at Class A2
- 2) Meets the requirements of BS EN 54-7: 2000 at medium and low sensitivity settings
- 3) Following tones meet the requirements of BS EN 54-3: 2001 at maximum volume setting
 - i) Continuous 990Hz
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6000PLUS/OPHT/SL

Analogue addressable indoor multisensor detector with sounder, short circuit isolator and beacon
(Bases 6000PLUS/BASE, 6000PLUS/FFBASE, N28-075-01 and N28-075-02)

Notes:

- 1) Meets the requirements of BS EN 54-5: 2000 at Class A2
- 2) Meets the requirements of BS EN 54-7: 2000 at medium and low sensitivity settings
- 3) Following tones meet the requirements of BS EN 54-3: 2001 at maximum volume setting
 - i) Continuous 990Hz
 - ii) Warble 990Hz for 250ms and 730Hz for 250ms
- 4) Beacon functionality is outside the scope of this approval

6000PLUS/OPHT/I

Analogue addressable indoor multisensor detector with short circuit Isolator
(Bases 6000PLUS/BASE, 6000PLUS/FFBASE, N28-075-01 and N28-075-02)

Notes:

- 1) Meets the requirements of BS EN 54-5: 2000 at Class A2
- 2) Meets the requirements of BS EN 54-7: 2000 at medium and low sensitivity settings

6000PLUS/OPHT/S

Analogue addressable indoor multisensor detector with sounder and short circuit isolator
(Bases 6000PLUS/BASE, 6000PLUS/FFBASE, N28-075-01 and N28-075-02)

Notes:

- 1) Meets the requirements of BS EN 54-5: 2000 at Class A2
- 2) Meets the requirements of BS EN 54-7: 2000 at medium and low sensitivity settings
- 3) Following tones meet the requirements of BS EN 54-3: 2001 at maximum volume setting
 - i) Continuous 990Hz
 - ii) Warble 990Hz for 250ms and 730Hz for 250ms

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6000PLUS/OPHT/SX

Analogue addressable indoor multisensor detector with sounder and short circuit isolator (Export version)
(Bases 6000PLUS/BASE, 6000PLUS/FFBASE, N28-075-01 and N28-075-02)

Notes:

- 1) Meets the requirements of BS EN 54-5: 2000 at Class A2
- 2) Meets the requirements of BS EN 54-7: 2000 at medium and low sensitivity settings
- 3) Following tones meet the requirements of BS EN 54-3: 2001 at maximum volume setting
 - i) Continuous 990Hz
 - ii) Warble 990Hz for 250ms and 730Hz for 250ms
 - iii) Dutch Whoop, 500-1500Hz over 3s

6000PLUS/OPHT

Analogue addressable indoor multisensor detector
(Bases 6000PLUS/BASE, 6000PLUS/FFBASE, N28-075-01 and N28-075-02)

Notes:

- 1) Meets the requirements of BS EN 54-5: 2000 at Class A2
- 2) Meets the requirements of BS EN 54-7: 2000 at medium and low sensitivity settings

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6000PLUS/OP/S

Analogue addressable indoor smoke detector with sounder and short circuit isolator
(Bases 6000PLUS/BASE, 6000PLUS/FFBASE, N28-075-01 and N28-075-02)

Notes:

- 1) Meets the requirements of BS EN 54-7: 2000 at medium sensitivity setting
- 2) Following tones meets the requirements of BS EN 54-3: 2001 at maximum volume setting
 - i) Continuous 990Hz
 - ii) Warble 990Hz for 250ms and 730Hz for 250ms

6000PLUS/OP/SX

Analogue addressable indoor smoke detector with sounder and short circuit isolator
(Export version)
(Bases 6000PLUS/BASE, 6000PLUS/FFBASE, N28-075-01 and N28-075-02)

Notes:

- 1) Meets the requirements of BS EN 54-7: 2000 at medium sensitivity setting
- 2) Following tones meet the requirements of BS EN 54-3: 2001 at maximum volume setting
 - i) Continuous 990Hz
 - ii) Warble 990Hz for 250ms and 730Hz for 250ms
 - iii) Dutch Whoop, 500-1500Hz over 3s

6000PLUS/OP

Analogue addressable indoor smoke detector
(Bases 6000PLUS/BASE, 6000PLUS/FFBASE, N28-075-01 and N28-075-02)

Notes:

- 1) Meets the requirements of BS EN 54-7: 2000 at medium sensitivity setting

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6000PLUS/HT/TSL

Analogue addressable indoor heat detector with talking sounder, short circuit isolator and beacon
(Bases 6000PLUS/BASE, 6000PLUS/FFBASE, N28-075-01 and N28-075-02)

Notes:

- 1) Meets the requirements of BS EN 54-5: 2000 at Classes A1 and A2
- 2) Following tones meet the requirements of BS EN 54-3: 2001 at maximum volume setting
 - i) Continuous 990Hz
 - ii) Warble 990Hz for 250ms and 730Hz for 250ms
 - iii) Bell 800Hz
 - iv) Voice message
(F_EVAC2: Female voice "evacuation message" V2, "Attention, attention. This is an emergency. Please leave the building by the nearest available exit")
- 3) Beacon functionality is outside the scope of this approval

6000PLUS/HT/SL

Analogue addressable indoor heat detector with sounder, short circuit isolator and beacon
(Bases 6000PLUS/BASE, 6000PLUS/FFBASE, N28-075-01 and N28-075-02)

Notes:

- 1) Meets the requirements of BS EN 54-5: 2000 at Classes A1 and A2
- 2) Following tones meet the requirements of BS EN 54-3: 2001 at maximum volume setting
 - i) Continuous 990Hz
 - ii) Warble 990Hz for 250ms and 730Hz for 250ms
- 3) Beacon functionality is outside the scope of this approval

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6000PLUS/HT/S

Analogue addressable indoor heat detector with sounder and short circuit isolator
(Bases 6000PLUS/BASE, 6000PLUS/FFBASE, N28-075-01 and N28-075-02)

Notes:

- 1) Meets the requirements of BS EN 54-5: 2000 at Classes A1 and A2
- 2) Following tones meets the requirements of BS EN 54-3: 2001 at maximum volume setting
 - i) Continuous 990Hz
 - ii) Warble 990Hz for 250ms and 730Hz for 250ms

6000PLUS/HT

Analogue addressable indoor heat detector
(Bases 6000PLUS/BASE, 6000PLUS/FFBASE, N28-075-01 and N28-075-02)

Notes:

- 1) Meets the requirements of BS EN 54-5: 2000 at Classes A1 and A2

6000PLUS/OP/I

Analogue addressable indoor smoke detector with short circuit Isolator
(Bases 6000PLUS/BASE, 6000PLUS/FFBASE, N28-075-01 and N28-075-02)

Notes:

- 1) Meets the requirements of BS EN 54-7: 2000 at medium and low sensitivity settings

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Certificate of Constancy of Performance

No. 2797 CPR 698336

Appendix 1

Harmonised Technical Specification		EN 54-3: 2001+A1:2002 +A2:2006
Essential Characteristics	Performance	Clause
Performance Parameters Under Fire Conditions		
Sound level	Pass	4.2
Frequencies and sound pattern	Pass	4.3
Reproducibility	Pass	5.2
Operational performance	Pass	5.3
Operational Reliability		
Durability	Pass	4.4 & 5.4
Construction	Pass	4.5
Marking and data	Pass	4.6
Durability of Operational Reliability		
Dry heat (operational)	Pass	5.5
Dry heat (endurance)	Pass	5.6
Cold (operational)	Pass	5.7
Damp heat, cyclic (operational)	Pass	5.8
Damp heat, steady state (endurance)	Pass	5.9
Damp heat, cyclic (endurance)	Pass	5.10
Sulphur dioxide (SO ₂) corrosion (endurance)	Pass	5.11
Shock (operational)	Pass	5.12
Impact (operational)	Pass	5.13
Vibration, sinusoidal (operational)	Pass	5.14
Vibration, sinusoidal (endurance)	Pass	5.15
Durability of Operational Reliability, Electrical Stability		
Electromagnetic compatibility (EMC) immunity (operational)	Pass	5.16
Durability of Operational Reliability, Resistance to Ingress		
Enclosure protection	Pass	5.17

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Appendix 2

Harmonised Technical Specification		EN 54-5: 2000+A1:2002
Essential Characteristics	Performance	Clause
Nominal activation conditions / sensitivity / response delay (response time) and performance under fire conditions		
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 high ambient temperature	Pass	5.6
Reproducibility	Pass	5.8
Operational Reliability		
Individual alarm indication	Pass	4.4
Connection of ancillary 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
Tolerance to supply voltage		
Variation in supply parameters	Pass	5.7
Durability of Operational Reliability		
Cold (operational)	Pass	5.9
Damp heat, cyclic (operational)	Pass	5.11
Damp heat, steady state (endurance)	Pass	5.12
Sulphur dioxide (SO ₂) corrosion (endurance)	Pass	5.13

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Appendix 2 (Cont....)

Shock (operational)	Pass	5.14
Impact (operational)	Pass	5.15
Vibration, sinusoidal (operational)	Pass	5.16
Vibration, sinusoidal (endurance)	Pass	5.17
Durability of Operational Reliability, Electrical Stability		
Electromagnetic compatibility (EMC), immunity (operational)	Pass	5.18

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Appendix 3

Harmonised Technical Specification		EN 54-7: 2000 + A1:2002+A2:2006
Essential Characteristics	Performance	Clause
Nominal activation conditions / sensitivity / response delay (response time) and performance under fire conditions		
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
Operational Reliability		
Individual alarm indicator	Pass	4.2
Connection of 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
Response to slowly developing fires	Pass	4.8
Marking	Pass	4.9
Data	Pass	4.10
Additional requirements for software controlled detectors	Pass	4.11
Tolerance to supply voltage		
Variation in supply voltage	Pass	5.5
Durability of Operational Reliability		
Dry heat (operational)	Pass	5.8
Cold (operational)	Pass	5.9
Damp heat, steady state (operational)	Pass	5.10
Damp heat, steady state (endurance)	Pass	5.11
Sulphur dioxide (SO ₂) corrosion (endurance)	Pass	5.12
Shock (operational)	Pass	5.13

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Appendix 3 (Cont....)

Impact (operational)	Pass	5.14
Vibration, sinusoidal (operational)	Pass	5.15
Vibration, sinusoidal (endurance)	Pass	5.16
Durability of Operational Reliability, Electrical Stability		
Electromagnetic compatibility (EMC), immunity (operational)	Pass	5.17



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Appendix 4

Harmonised Technical Specification		EN 54-17: 2005+AC:2007
Essential Characteristics	Performance	Clause
Performance under fire conditions		
Reproducibility	Pass	5.2
Operational Reliability		
Requirements	Pass	4
Durability of Operational Reliability		
Dry heat	Pass	5.4
Cold (operational)	Pass	5.5
Damp heat, cyclic (operational)	Pass	5.6
Damp heat, steady state (endurance)	Pass	5.7
Sulphur dioxide (SO ₂) corrosion	Pass	5.8
Shock (operational)	Pass	5.9
Impact (operational)	Pass	5.10
Vibration, sinusoidal (operational)	Pass	5.11
Vibration, sinusoidal (endurance)	Pass	5.12
Durability of Operational Reliability, Electrical Stability		
Variation in supply parameters	Pass	5.3
Electromagnetic compatibility (EMC), immunity tests (operational)	Pass	5.13

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