

Certificate of Constancy of Performance

0359-CPR-00476



In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation), this certificate applies to the construction product(s)

Product(s): **ProPoint Plus range of Aspirating Smoke Detectors**
(refer to attached appendix for details and conditions)

Produced by or for: **Protec Fire Detection Plc.**
Protec House, Churchill Way, Nelson, Lancashire, BB9 6RT

Produced in the manufacturing plant(s): **Protec Fire Detection Plc. (PROTECUK.01)**
Protec House, Churchill Way, Nelson, Lancashire, BB9 6RT

Intended use: **Fire Safety**

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

EN54-20:2006

Fire detection and fire alarm systems - Aspirating smoke detectors

EN54-17:2005+AC:2007

Fire detection and fire alarm systems - Short-circuit isolators

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

This certificate was first issued on **17 June 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and the product, and the manufacturing conditions in the plant are not modified significantly, unless suspended or withdrawn by the product certification body. A review of the product(s) and compliant standard(s) will be carried out after 5 years to ensure continued compliance.

Notified Body

0359

Intertek Testing & Certification Limited
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Oliver Richardson
Operations Manager



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Issue 2

Re-Issue 17/06/2020

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-00476

The details and conditions of use for the Protec Fire Detection Plc ProPoint Plus range of Aspirating Smoke Detectors, placed on the market by:

Protec Fire Detection Plc.

Protec House, Churchill Way, Nelson, Lancashire, BB9 6RT

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 EN54-20:2006 and EN54-17:2005+AC:2007

Variant	Manufacturing Location	Description
61-986-106	PROTECUK.01	ProPoint Plus 1 Pipe Optical/CO/Enhance Heat
61-986-103	PROTECUK.01	ProPoint Plus 2 Pipe Optical/CO/Enhance Heat
61-986-105	PROTECUK.01	ProPoint Plus 3 Pipe Optical/CO/Enhance Heat
61-986-104	PROTECUK.01	ProPoint Plus 4 Pipe Optical/CO/Enhance Heat

Approved settings:

EN54-20:2006 settings:

Class	Alarm settings (max)		Maximum holes
	Alarm Point	Alarm Level	
Class A	Pre-Alarm	150	12 (max 3 holes per pipe) A1, A2, A3
	Fire - 1	200	
Class B	Pre-Alarm	150	20 (max 5 holes per pipe) B1, B2, B3, B4, B5
	Fire - 1	250	
Class C	Pre-Alarm	150	32 (max 8 holes per pipe) C1 (prison mode), C2, C3, C4, C5, C6, C7, C8
	Fire - 1	250	

Note:

AX, BX and CX denotes the number of holes per pipe which is applicable for the Class, where A, B and C indicate the Class and X the optional number of holes permitted.

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Appendix to Certificate of Constancy of Performance 0359-CPR-00476 (continued)

EN54-17:2005+AC:2007 settings:

Quantity	Description	Value
V_{max}	Maximum line voltage	27 VDC
V_{nom}	Nominal line voltage	24 VDC
V_{min}	Minimum line voltage	18 VDC
$V_{so\ max}$	Maximum voltage at which the device isolates	3.2 V
$V_{so\ min}$	Minimum voltage at which the device isolates	1.2 V
$V_{sc\ max}$	Maximum voltage at which the device reconnects	3.85 V
$V_{sc\ min}$	Minimum voltage at which the device reconnects	2.0 V
$I_{c\ max}$	Maximum rated continuous current with S1 closed	1.2 A
$I_{s\ max}$	Maximum rated switching current	1.2 A
$I_{L\ max}$	Maximum leakage current with S1 open	14 mA
$Z_{c\ max}$	Maximum isolator contact series impedance with S1 closed	100 m Ω

Conditions of use:

Suitable for indoor applications

General Notes:

1. Evaluated under Intertek project number 101518083.
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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Table of performance for EN54-17:2005+AC:2007			
Harmonised technical specification			
Essential characteristics	Performance	Clauses	Notes
Performance under fire conditions	Pass	5.2	a
Operational reliability	Pass	4	b, c, d, e, f, g
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:			
<p>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.</p> <p>b. Clause 4.2 is only applicable if the short-circuit isolator incorporates an integral visual indication of status; an assessment to this clause was therefore not performed.</p> <p>c. Clause 4.3 is only applicable if the short-circuit isolator provides for connections to ancillary devices; an assessment to this clause was therefore not performed.</p> <p>d. Clause 4.4 is only applicable for detachable short-circuit isolators; an assessment to this clause was therefore not performed.</p> <p>e. Clause 4.5 requires use of a special code or tool, or the breaking or removing of a seal; an assessment to this clause was therefore not performed.</p> <p>f. 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 therefore not performed.</p> <p>g. The manufacturer declared that the short-circuit isolators are not controlled by software; an assessment to Clause 4.9 was therefore not performed.</p>			

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Table of performance for EN54-20:2006			
Harmonised technical specification			
Essential characteristics	Performance	Clauses	Notes
Nominal activation Conditions / sensitivity, response delay (response time) and performance under fire conditions	Pass	5.6, 6.2, 6.3, 6.15	a
Operational reliability	Pass	5.2 to 5.5, 5.7 to 5.12	
Tolerance to supply voltage	Pass	6.4	
Durability of operational reliability, Temperature resistance	Pass	6.5, 6.6	
Durability of operational reliability, Vibration resistance	Pass	6.10, 6.11, 6.12, 6.13	
Durability of operational reliability, Electrical stability	Pass	6.14	
Durability of operational reliability, Humidity resistance	Pass	6.7, 6.8	
Durability of operational reliability, Corrosion resistance	Pass	6.9	
Notes:			
a) The products covered by this standard are assumed to enter the alarm condition, in an event of fire, before the fire becomes so large as to affect their functioning. There is therefore no requirement to function when exposed to direct attack from fire.			

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