

Intertek Testing & Certification

**Pyrex GmbH**

**PX-1 and PX-1C Domestic Smoke Alarms**

EN14604:2005+AC:2008

Unit D Imperial Park, Randalls Way,  
Leatherhead, Surrey, KT22 7TA  
United Kingdom

Telephone: +44 (0)1372 370900  
Facsimile: +44 (0)1372 370999  
www.intertek.com



## LIFE SAFETY AND SECURITY DEPARTMENT

### Pyrex GmbH PX-1 and PX-1C Domestic Smoke Alarms

EN14604:2005+AC:2008

Smoke Alarm Devices

**Intertek Report No: 103558898LHD-021**

Prepared for:

**Pyrex GmbH**

Siemensdamm 62

13627 Berlin

Germany

Report by:

A handwritten signature in black ink that reads 'Bhavika Harsora'.

Bhavika Harsora

Test Engineer - LSS

Reviewed by:

A handwritten signature in black ink that appears to read 'Ray Jefferies'.

Ray Jefferies

Regional Engineering Director (EMEA)

*This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.*

**Intertek Testing & Certification Ltd**

Registered No. 3272281 Registered office: Academy Place, 1-9 Brook Street, Brentwood, Essex CM14 5NQ

---

## Table of Contents

<b>1</b>	<b>Summary and conclusion .....</b>	<b>3</b>
<b>2</b>	<b>References .....</b>	<b>3</b>
<b>3</b>	<b>General Information .....</b>	<b>4</b>
3.1	Purpose .....	4
3.2	Origin of request .....	4
3.3	Expressed opinions .....	4
3.4	Test House Accreditation .....	4
3.5	Client details .....	4
3.6	Sub-contractor information .....	4
3.7	Test dates .....	4
<b>4</b>	<b>Materials submitted for evaluation .....</b>	<b>5</b>
4.1	Equipment submitted .....	5
4.2	Documentation submitted .....	5
4.3	Product Specification .....	5
4.4	Photographs of the submitted products .....	6
<b>5</b>	<b>Modifications made during the evaluation .....</b>	<b>8</b>
<b>6</b>	<b>Summary of the evaluation .....</b>	<b>9</b>
6.1	Model PX-1 .....	9
6.2	Model PX-1C .....	10
<b>7</b>	<b>Summary of the primary performance tests .....</b>	<b>12</b>
7.1	Smoke alarm marking .....	12
7.2	Data .....	15
7.3	Initial Sensitivity .....	16
7.4	Fire sensitivity .....	19

## 1 Summary and conclusion

The Pyrexx GmbH PX-1 and PX-1C Domestic Smoke Alarms were evaluated in accordance with EN14604:2005+AC:2008 Smoke alarm devices.

The Pyrexx GmbH PX-1 and PX-1C Domestic Smoke Alarms were found to be compliant with the requirements of EN14604:2005+AC:2008, providing they were as detailed in this report and incorporated any modifications indicated in Section 5.

## 2 References

EN14604:2005 Smoke alarm devices; incorporating corrigendum 2008. European Committee for Standardization. Management Centre: rue de Stassart, 36 B-1050 Brussels.

KRIWAN TESTZENTRUM Test Report 140140-01-01-T-25 (PX-1 Smoke Alarm Device), issued 24/07/2014. KRIWAN Testzentrum GmbH & Co. KG Teslastraße 2 74670 Forchtenberg, GERMANY

KRIWAN TESTZENTRUM Test Report 140141-01-01-T-25 (PX-1C Smoke Alarm Device), issued 24/07/2014. KRIWAN Testzentrum GmbH & Co. KG Teslastraße 2 74670 Forchtenberg, GERMANY

### **3 General Information**

#### **3.1 Purpose**

This report covers the evaluation of the Pyrex GmbH PX-1 and PX-1C Domestic Smoke Alarms in accordance with EN14604:2005+AC:2008.

The test report contains all the information regarding the submitted product and the testing to which it was subjected to. The results relate only to the samples tested and detailed in the test report.

#### **3.2 Origin of request**

The evaluation was requested by Pyrex GmbH, reference Intertek quotation No Qu-00893144 dated 13/06/2018. The evaluation was carried out in accordance with the test schedule associated with the project number G103558898.

#### **3.3 Expressed opinions**

Where the product is being evaluated, the project personnel conducting the test in some cases may express an opinion. The expressed opinion, while relevant to the product at the time of the evaluation being conducted, it is by no means the view or opinion of the relevant standards body. The opinion is also outside the scope of the Intertek UKAS accreditation.

#### **3.4 Test House Accreditation**

Intertek testing laboratory operates under UKAS accreditation to EN 17025, product specific accreditation is available on request.

#### **3.5 Client details**

Pyrex GmbH  
Siemensdamm 62  
13627 Berlin  
Germany

#### **3.6 Sub-contractor information**

There were no sub-contractors used during this evaluation.

#### **3.7 Test dates**

Testing Commenced on 06<sup>th</sup> August 2018.

Tests were completed on 08<sup>th</sup> March 2019.

## 4 Materials submitted for evaluation

### 4.1 Equipment submitted

#### Submission 1

Quantity	Model	Description	Date received
21	PX-1	Domestic Smoke Alarm	27/07/2018
21	PX-1C	Domestic Smoke Alarm with Radio Link	27/07/2018

### 4.2 Documentation submitted

Please refer to the controlled Intertek document registers for details of the documentation relating to the products for this evaluation.

### 4.3 Product Specification

The following specifications were given by the customer;

<b>Batteries</b>	CR-2/3AZE2PN by Panasonic		
<b>Sensor Assembly</b>			
<b>Description</b>		<b>Manufacturer</b>	<b>Manufacturer's Part No.</b>
IR Receiver		Vishay	BPV22F
IR Emitting Diode		Vishay	TSAL6100, TSAL6102
Chamber Cover	Smoke Chamber	Mankeplast	PX1.V3.RKAMDECK.01 PX1.V3.RKAM.01
Chamber Base			
<b>EN14604:2005+AC:2008 Options provided:</b>			
<b>Clause</b>	<b>Description</b>		<b>Option provided</b>
4.2	Individual alarm indicator		No
5.19	Inter-connectable smoke alarms (wired)		No
5.20	Alarm silence facility		Yes
Annex L	Alarms intended for installation in leisure accommodation vehicles		Yes

## 4.4 Photographs of the submitted products

### 4.4.1 Model PX-1 Top



### 4.4.2 Model PX-1 Bottom



#### 4.4.3 Model PX-1C Top



#### 4.4.4 Model PX-1C Bottom



## 5 Modifications made during the evaluation

No modifications were made to PX-1 and PX-1C during this evaluation.

## 6 Summary of the evaluation

The evaluation was conducted to the following test programme(s). The table(s) below show the results of each of the tests conducted and the submission level at which compliance was met.

### 6.1 Model PX-1

Clause – Title of requirement(s)		Comments			Result (Submission)
4 – Requirements					
4.1 – Compliance		See KRIWAN test report 140140-01-01-T-25			#
4.2 – Individual Alarm Indication (optional)		See KRIWAN test report 140140-01-01-T-25			#
4.3 – Mains-on indicator		None			N/A
4.4 – Connection of external ancillary devices		None			N/A
4.5 – Means of calibration		See KRIWAN test report 140140-01-01-T-25			#
4.6 – User replaceable components		See KRIWAN test report 140140-01-01-T-25			#
4.7 – Normal power source		See KRIWAN test report 140140-01-01-T-25			#
4.8 – Standby power source		None			N/A
4.9 – Electrical safety requirements		See KRIWAN test report 140140-01-01-T-25			#
4.10 – Routine test facility		See KRIWAN test report 140140-01-01-T-25			#
4.11 – Terminals for external conductors		None			N/A
4.12 – Smoke alarm signals		See KRIWAN test report 140140-01-01-T-25			#
4.13 – Battery removal indication		None			N/A
4.14 – Battery connections		None			N/A
4.15 – Battery capacity		See KRIWAN test report 140140-01-01-T-25			#
4.16 – Protection against the ingress of foreign bodies		See KRIWAN test report 140140-01-01-T-25			#
4.17 – Additional requirements for software controlled smoke alarms		See KRIWAN test report 140140-01-01-T-25			#
4.18 – Inter-connectable smoke alarms		None			N/A
4.19 – Marking and data		See Section 7.1 and 7.2 of this report.			P (Final)
5 – Tests					
5.1 – General					
		<b>Sample No.</b>	<b>Max. RTV (dB/m)</b>	<b>Min. RTV (dB/m)</b>	<b>Ratio</b>
5.2 – Repeatability		-	See KRIWAN test report 140140-01-01-T-25		#
5.3 – Directional dependence		-	See KRIWAN test report 140140-01-01-T-25		#
5.4 – Initial sensitivity		-	See Section 7.3 of this report.		P1
5.5 – Air movement		0.2 m/s	See KRIWAN test report 140140-01-01-T-25		#
		1 m/s			
5.6 – Dazzling		Least sensitive	See KRIWAN test report 140140-01-01-T-25		#
		Least sensitive ±90°			#
5.7 – Dry heat		-	See KRIWAN test report 140140-01-01-T-25		#
5.8 – Cold (operational)		-	See KRIWAN test report 140140-01-01-T-25		#
5.9 – Damp heat (operational)		-	See KRIWAN test report 140140-01-01-T-25		#
5.10 – SO <sub>2</sub> corrosion (endurance)		-	See KRIWAN test report 140140-01-01-T-25		#
		-			#
5.11 – Impact (operational)		-	See KRIWAN test report 140140-01-01-T-25		#
5.12 – Vibration (operational)		-	See KRIWAN test report 140140-01-01-T-25		#
5.13 – Vibration (endurance)		-			#
5.14a - Mains supply voltage dips and short interruptions		-	None		N/A
5.14b – Electrostatic discharge		-	See KRIWAN test report 140140-01-01-T-25		#
5.14c – Radiated electromagnetic fields		-	See KRIWAN test report 140140-01-01-T-25		#
5.14d – Conducted disturbances induced by electromagnetic fields		-	None		N/A
5.14e – Fast transient bursts		-	None		N/A
5.14f – Slow high energy voltage surge		-	None		N/A

Clause – Title of requirement(s)		Comments			Result (Submission)	
5.15 – Fire sensitivity		Represented by PX-1C			#	
5.16 – Battery fault warning		See KRIWAN test report 140140-01-01-T-25			#	
5.17 – Sound output		See KRIWAN test report 140140-01-01-T-25			#	
5.18 – Sounder durability		See KRIWAN test report 140140-01-01-T-25			#	
5.19 – Inter-connectable smoke alarms		None			N/A	
5.20 – Alarm silence facility	IM	None			P1	
5.21 - Variation in supply voltage	Battery (dc) 3.0 V & 2.5 V	IO	0.175	0.165	1.06	P1
5.22 – Polarity reversal		None			N/A	
5.23 – Back-up power source		None			N/A	
5.24 – Electrical safety		See KRIWAN test report 140140-01-01-T-25			#	
Annex L – Alarms for leisure accommodation vehicles		-	See KRIWAN test report 140140-01-01-T-25		#	

## 6.2 Model PX-1C

Clause – Title of requirement(s)		Comments			Result (Submission)	
4 – Requirements						
4.1 – Compliance		See KRIWAN test report 140141-01-01-T-25			#	
4.2 – Individual Alarm Indication (optional)		See KRIWAN test report 140141-01-01-T-25			#	
4.3 – Mains-on indicator		None			N/A	
4.4 – Connection of external ancillary devices		None			N/A	
4.5 – Means of calibration		See KRIWAN test report 140141-01-01-T-25			#	
4.6 – User replaceable components		See KRIWAN test report 140141-01-01-T-25			#	
4.7 – Normal power source		See KRIWAN test report 140141-01-01-T-25			#	
4.8 – Standby power source		None			N/A	
4.9 – Electrical safety requirements		See KRIWAN test report 140141-01-01-T-25			#	
4.10 – Routine test facility		See KRIWAN test report 140141-01-01-T-25			#	
4.11 – Terminals for external conductors		None			N/A	
4.12 – Smoke alarm signals		See KRIWAN test report 140141-01-01-T-25			#	
4.13 – Battery removal indication		None			N/A	
4.14 – Battery connections		None			N/A	
4.15 – Battery capacity		See KRIWAN test report 140141-01-01-T-25			#	
4.16 – Protection against the ingress of foreign bodies		See KRIWAN test report 140141-01-01-T-25			#	
4.17 – Additional requirements for software controlled smoke alarms		See KRIWAN test report 140141-01-01-T-25			#	
4.18 – Inter-connectable smoke alarms		None			N/A	
4.19 – Marking and data		See Section 7.1 and 7.2 of this report.			P (Final)	
5 – Tests						
5.1 – General						
		Sample No.	Max. RTV (dB/m)	Min. RTV (dB/m)	Ratio	
5.2 – Repeatability		-	See KRIWAN test report 140141-01-01-T-25			#
5.3 – Directional dependence		See KRIWAN test report 140141-01-01-T-25			#	
5.4 – Initial sensitivity		See Section 7.3 of this report.			P1	
5.5 – Air movement	0.2 m/s	-	See KRIWAN test report 140141-01-01-T-25			#
	1 m/s					
5.6 – Dazzling	Least sensitive	-	See KRIWAN test report 140141-01-01-T-25			#
	Least sensitive ±90°					
5.7 – Dry heat		-	See KRIWAN test report 140141-01-01-T-25			#
5.8 – Cold (operational)		-	See KRIWAN test report 140141-01-01-T-25			#
5.9 – Damp heat (operational)		-	See KRIWAN test report 140141-01-01-T-25			#
5.10 – SO <sub>2</sub> corrosion (endurance)		-	See KRIWAN test report 140141-01-01-T-25			#

Clause – Title of requirement(s)		Comments	Result (Submission)
	-		#
5.11 – Impact (operational)	-	See KRIWAN test report 140141-01-01-T-25	#
5.12 – Vibration (operational)	-	See KRIWAN test report 140141-01-01-T-25	#
5.13 – Vibration (endurance)			#
5.14a - Mains supply voltage dips and short interruptions	-	None	N/A
5.14b – Electrostatic discharge	-	See KRIWAN test report 140141-01-01-T-25	#
5.14c – Radiated electromagnetic fields	-	See KRIWAN test report 140141-01-01-T-25	#
5.14d – Conducted disturbances induced by electromagnetic fields	-	None	N/A
5.14e – Fast transient bursts	-	None	N/A
5.14f – Slow high energy voltage surge	-	None	N/A
5.15 – Fire sensitivity		See Section 7.4 of this report	P1
5.16 – Battery fault warning		See KRIWAN test report 140141-01-01-T-25	#
5.17 – Sound output		See KRIWAN test report 140141-01-01-T-25	#
5.18 – Sounder durability		See KRIWAN test report 140141-01-01-T-25	#
5.19 – Inter-connectable smoke alarms		None	N/A
5.20 – Alarm silence facility	CP	None	P1
5.21 - Variation in supply voltage	Battery (dc) 3.0 V & 2.5 V CQ	0.144      0.142      1.01	P1
5.22 – Polarity reversal		None	N/A
5.23 – Back-up power source		None	N/A
5.24 – Electrical safety		See KRIWAN test report 140141-01-01-T-25	#
Annex L – Alarms for leisure accommodation vehicles	-	See KRIWAN test report 140141-01-01-T-25	#

**Key:**

PX Pass, where X denotes submission level at which the product met the requirements of the test.

# Test covered by device of similar type or more complex in construction

N/A Not applicable

## 7 Summary of the primary performance tests

### 7.1 Smoke alarm marking

#### 7.1.1 Assessment procedure

The assessment was conducted in accordance with Clauses 4.19.1 and 4.19.2 of EN14604:2005+AC:2008.

#### 7.1.2 Assessment findings

##### Model PX-1

Clause	Title of the requirements	Reference to evidence
4.19.1 a)	Standard number (EN 14604:2005 / AC:2008)	PM – Fig. 1
4.19.1 b)	Name or trademark	PM – Fig. 1
4.19.1 c)	Date of manufacture or batch number	PM – Fig. 1
4.19.1 d)	Manufacturer's recommended date for replacement	PM – Fig. 1
4.19.1 e)	Recommended battery type	N/A
4.19.1 f)	Non replaceable battery warning	PM – Fig. 3
4.19.2	Radionuclide packaging marking	N/A
Marking visible during installation and accessible during maintenance		Yes
Marking placed on screws or easily removed parts		No
Marking still legible following rub test		Yes
<b>Comments:</b>	None	
<b>Result:</b>	Pass	

##### Model PX-1C

Clause	Title of the requirements	Reference to evidence
4.19.1 a)	Standard number (EN 14604:2005 / AC:2008)	PM – Fig. 2
4.19.1 b)	Name or trademark	PM – Fig. 2
4.19.1 c)	Date of manufacture or batch number	PM – Fig. 2
4.19.1 d)	Manufacturer's recommended date for replacement	PM – Fig. 2
4.19.1 e)	Recommended battery type	N/A
4.19.1 f)	Non replaceable battery warning	PM – Fig. 3
4.19.2	Radionuclide packaging marking	N/A
Marking visible during installation and accessible during maintenance		Yes
Marking placed on screws or easily removed parts		No
Marking still legible following rub test		Yes
<b>Comments:</b>	None	
<b>Result:</b>	Pass	

**Key:**

PM – Fig. X Marked on submitted product – Reference to pictorial evidence in report

LD – Fig. X Marked on submitted documentation – Reference to pictorial evidence in report

PM, LD – Fig. X Marked on submitted documentation and product – Reference to pictorial evidence in report

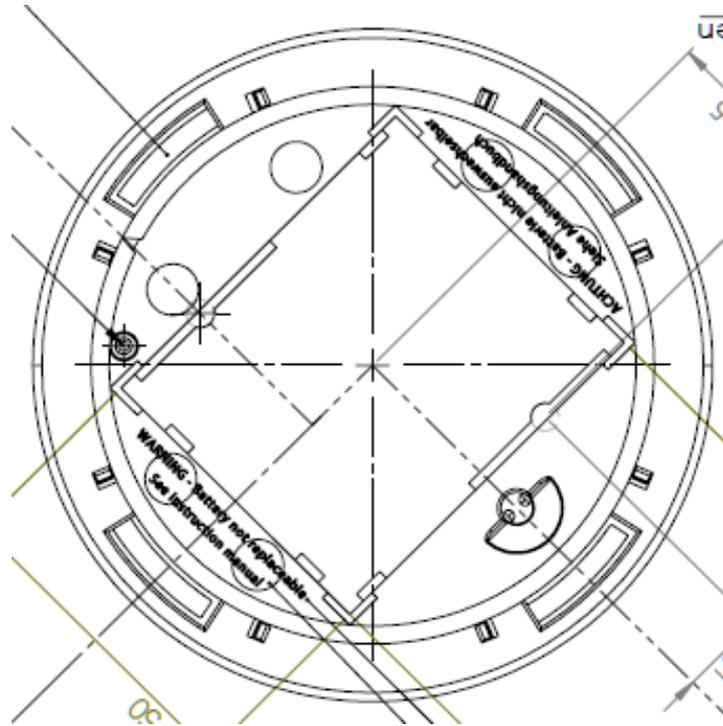
**7.1.2.1 Figure 1 - Produktkennzeichnung\_PX-1\_V3-Q\_2018-11-08**



**7.1.2.2 Figure 2 - Produktkennzeichnung\_PX-1C\_V3-Q\_2018-11-08**



### 7.1.2.3 Figure 3 - G103558898\_housing\_1\_V3\_2018-09-05



### 7.1.3 Assessment result

On the basis of the above mentioned assessment(s) the product(s) conform to the requirements of Clauses 4.19.1 and 4.19.2 of EN14604:2005+AC:2008, providing the product(s) were fitted with the appropriate labels indicated in this report.

## 7.2 Data

### 7.2.1 Assessment procedure

The assessment was conducted in accordance with Clause 4.19.3 of EN14604:2005+AC:2008.

### 7.2.2 Assessment findings

#### Model PX-1

Clause	Title of Requirements/Tests	Product data
4.19.3	Instructions on siting, installation and maintenance	Yes
	Guidance on changing the batteries and recommendation that the alarm is tested when batteries are replaced	N/A
	Action to take if battery fault warning is emitted on alarms with non-replaceable batteries	Yes
	Information and cable details for inter-connectable smoke alarms	N/A
	Wiring instructions for mains powered smoke alarms	N/A
	Information for alarms suitable for use in Leisure Accommodation Vehicles	Yes
<b>Comments:</b>	Ref. manual BA_PX-1_mit und ohne Q (V3)_DE_EN_2019-02-18_k_256070_Druck	
<b>Result:</b>	Pass	

#### Model PX-1C

Clause	Title of Requirements/Tests	Product data
4.19.3	Instructions on siting, installation and maintenance	Yes
	Guidance on changing the batteries and recommendation that the alarm is tested when batteries are replaced	N/A
	Action to take if battery fault warning is emitted on alarms with non-replaceable batteries	Yes
	Information and cable details for inter-connectable smoke alarms	N/A
	Wiring instructions for mains powered smoke alarms	N/A
	Information for alarms suitable for use in Leisure Accommodation Vehicles	Yes
<b>Comments:</b>	Ref. manual BA_PX-1C_mit und ohne Q (V3)_DE_EN_2019-02-18_k_263348_Druck	
<b>Result:</b>	Pass	

### 7.2.3 Assessment result

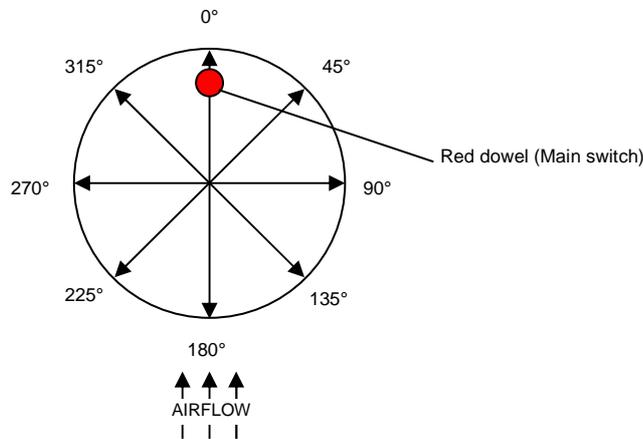
On the basis of the above mentioned assessment(s) the product(s) conform to the requirements of Clause 4.19.3 of EN14604:2005+AC:2008.

## 7.3 Initial Sensitivity

### 7.3.1 Test procedure

The test was conducted in accordance with Clause 5.4 of EN14604:2005+AC:2008 and in accordance with standards referenced therein. Any special consideration needed during the test is identified.

Note: The 0° reference point was identifiable by the red dowel on the back of the smoke alarm downstream and in line with the airflow. Orientation was in a clockwise direction as viewed from above and with the reference point downstream from the airflow. This reference was taken from 2014-07-24\_Test\_report\_140140-01-01-T-25 and 2014-07-24\_Test\_report\_140141-01-01-T-25.



### 7.3.2 Test data

#### Model PX-1

Orientation: 180°			
Sample:	Intertek sample Ref.	RTV (dB/m)	Designated $m_{min}$ and $m_{max}$
1	IB	0.170	$m_{min}$
2	IO	0.175	
3	IQ	0.175	
4	IP	0.176	
5	IR	0.176	
6	IC	0.178	
7	IF	0.180	
8	IH	0.181	
9	IG	0.185	
10	IJ	0.185	
11	IA	0.187	
12	IL	0.190	
13	IN	0.190	
14	IK	0.196	
15	II	0.198	
16	IM	0.198	
17	IT	0.198	
18	IE	0.199	
19	ID	0.208	
20	IS	0.215	$m_{max}$
Quantity	Measurement / Calculation		Requirement
$m_{mean}$ (dB/m)	0.188		
$m_{max} : m_{mean}$	1.14		$\leq 1.33$
$m_{mean} : m_{min}$	1.11		$\leq 1.5$
<b>Comments:</b>	None		
<b>Result:</b>	Pass		

**Model PX-1C**

<b>Orientation: 180°</b>			
<b>Sample:</b>	<b>Intertek sample Ref.</b>	<b>RTV (dB/m)</b>	<b>Designated <math>m_{min}</math> and <math>m_{max}</math></b>
1	CF	0.162	$m_{min}$
2	CQ	0.163	
3	CI	0.167	
4	CR	0.167	
5	CB	0.170	
6	CK	0.171	
7	CL	0.174	
8	CM	0.174	
9	CT	0.174	
10	CN	0.175	
11	CE	0.179	
12	CS	0.181	
13	CJ	0.183	
14	CA	0.185	
15	CH	0.185	
16	CP	0.189	
17	CO	0.196	
18	CG	0.198	
19	CC	0.201	
20	CD	0.214	$m_{max}$
<b>Quantity</b>	<b>Measurement / Calculation</b>		<b>Requirement</b>
$m_{mean}$ (dB/m)	0.180		
$m_{max} : m_{mean}$	1.19		$\leq 1.33$
$m_{mean} : m_{min}$	1.11		$\leq 1.5$
<b>Comments:</b>	None		
<b>Result:</b>	Pass		

**7.3.1 Test result**

On the basis of the above mentioned test result(s) the product(s) conform to the requirements of Clause 5.4 of EN14604:2005+AC:2008.

## 7.4 Fire sensitivity

### 7.4.1 Test procedure

The test was conducted in accordance with Clause 5.15 of EN14604:2005+AC:2008 and in accordance with standards referenced therein. Any special consideration needed during the test is identified.

### 7.4.2 Test data

#### Model PX-1C

Test Fire	Sample	Position	Alarm time (s)	Parameters at point of alarm Smoke density	
				m (dB/m)	y
<b>TF 2</b> Smouldering (pyrolysis) wood fire	CO	Ceiling Far Left	515	1.33	0.97
	CG	Ceiling Left	512	1.22	0.91
	CC	Ceiling Right	521	1.15	1.11
	CD	Ceiling Far Right	510	1.21	0.90
<b>TF 3</b> Glowing smouldering cotton fire	CO	Ceiling Far Left	292	1.05	3.05
	CG	Ceiling Left	286	1.09	2.91
	CC	Ceiling Right	282	1.06	2.58
	CD	Ceiling Far Right	278	0.97	2.50
<b>TF 4</b> Flaming plastics (polyurethane) fire	CO	Ceiling Far Left	127	1.36	4.40
	CG	Ceiling Left	115	1.07	3.61
	CC	Ceiling Right	116	1.00	3.74
	CD	Ceiling Far Right	128	1.11	4.37
<b>TF 5</b> Flaming liquid (n-heptane) fire	CO	Ceiling Far Left	147	0.86	5.40
	CG	Ceiling Left	143	0.88	5.12
	CC	Ceiling Right	144	0.88	5.13
	CD	Ceiling Far Right	141	0.86	5.14
Test fire	All detector into alarm before the end of test conditions reached	Quantity	Measurement / Calculation	Requirement	
TF 2	Yes	dB/m	1.33	$m \leq 2.0$ dB/m	
TF 3	Yes	dB/m	1.09	$m \leq 2.0$ dB/m	
TF 4	Yes	y	4.40	$y \leq 6.0$	
TF 5	Yes	y	5.40	$y \leq 6.0$	
<b>Comments:</b>	Least Sensitive Orientation: 180°				
<b>Result:</b>	Pass				

### 7.4.3 Test result

On the basis of the above mentioned test result(s) the product(s) conform to the requirements of Clause 5.15 of EN14604:2005+AC:2008.