

## DECLARATION OF PERFORMANCE

According to Construction Products Regulation (EU) No 305/2011  
and amended by Regulation (EU) No 574/2014  
Document No. 2831-CPR-F2748

1. Unique identification code of the product-type:

**Type 2840 Intrinsically safe analog photoelectrical smoke detector**

2. Intended Use:

**Fire detection and fire alarm systems installed in and around buildings**

3. Manufacturer:

**Panasonic Corporation Tsu Factory**

**1668, Fujikata, Tsu-shi, Mie-ken, 514-8555, JAPAN**

4. Authorized representative:

**Niels Erdmann**

**Panasonic Testing Centre**

**Panasonic Marketing Europe GmbH**

**Winsbergring 15, 22525 Hamburg, Germany**

5. System(s) of AVCP:

**System 1**

6a. Harmonized standard:

**EN54-7:2018**

Notified body:

**BRE Global Assurance (Ireland) Limited      Accreditation No. 2831**

**Certificate of constancy of performance: 2831-CPR-F2748**

6b. European Assessment Document: **N/A**

European Technical Assessment: **N/A**

Technical Assessment Body: **N/A**

Notified Body: **N/A**

## 7. Declared performance:

Essential characteristics	Clauses in EN54-7:2018	Regulatory classes	Notes
Operational reliability		None	
Individual alarm indication	4.2.1		
Connection of ancillary devices	4.2.2		
Monitoring of detachable detectors	4.2.3		
Manufacturer's adjustments	4.2.4		
On site adjustment of response behaviour	4.2.5		
Protection against the ingress of foreign bodies	4.2.6		
Response to slowly developing fires	4.2.7		
software controlled detector (when provided)	4.2.8		
Nominal activation conditions / sensitivity			
Repeatability	4.3.1	0.08 – 0.10 dB/m	Ratio 1.25
Directional dependence	4.3.2	0.09 – 0.11 dB/m	Ratio 1.22
Reproducibility	4.3.3	0.08 – 0.12 dB/m	Ratio 1.21 – 1.24
Response delay (response time)			
Air movement	4.4.1	0.07 – 0.08 dB/m	Ratio 1.0
Dazzling	4.4.2	0.08 – 0.10 dB/m	Ratio 1.0 – 1.25
Tolerance to supply voltage: Variation in supply parameters	4.5	0.08 – 0.09 dB/m	Ratio 1.13
Performance parameters under fire conditions: Fire sensitivity	4.6		
Durability of Nominal activation conditions/sensitivity			
Temperature resistance:			
Cold (operational)	4.7.1.1	0.08 – 0.09 dB/m	Ratio 1.13
Dry heat (operational)	4.7.1.2	0.09 – 0.10 dB/m	Ratio 1.11

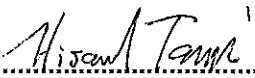
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Humidity resistance:			
Damp heat, steady-state (operational)	4.7.2.1	0.10 – 0.14 dB/m	Ratio 1.40
Damp heat, steady-state (endurance)	4.7.2.2	0.10 – 0.13 dB/m	Ratio 1.30
Corrosion resistance:			
Sulfur dioxide (SO <sub>2</sub> ) corrosion (endurance)	4.7.3	0.08 – 0.09 dB/m	Ratio 1.13
Vibration Resistance:			
Shock (operational)	4.7.4.1	0.11 – 0.12 dB/m	Ratio 1.09
Impact (operational)	4.7.4.2	0.09 – 0.10 dB/m	Ratio 1.11
Vibration, sinusoidal (operational)	4.7.4.3	0.09 – 0.13 dB/m	Ratio 1.44
Vibration, sinusoidal (endurance)	4.7.4.4	0.09 – 0.13 dB/m	Ratio 1.44
Electrical stability: EMC, immunity (operational)	4.7.5	0.08 – 0.09 dB/m	Ratio 1.0 - 1.13

8. Appropriate Technical Documentation and/or Specific Technical Documentation: N/A


The performance of the product identified is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above:

**Signed for and on behalf of the manufacturer by:**

(Signature):   
 (Printed name): Hisashi Taniguchi  
 (Title): Director

**Place and date of issue**  
 Japan, November 2, 2022

**Authorized Representative in EU:**

(Signature):   
 (Printed Name): Wolfram Kühl  
 (Date): 02.Nov.2022

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