

DECLARATION OF PERFORMANCE

According to Construction Products Regulation (EU) No 305/2011

and amended by Regulation (EU) No 574/2014

Document No. 0786-CPR-21783

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:

VdS Schadenverhütung GmbH Accreditation No. 0786

Certificate of constancy of performance: 0786-CPR-21783

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	Performance
Operational reliability		
Individual alarm indication	4.2.1	Red LED
Connection of ancillary devices	4.2.2	NPD
Monitoring of detachable detectors	4.2.3	Fault signal released
Manufacturer's adjustments	4.2.4	Change of settings impossible or special means required
On-site adjustment of response behaviour	4.2.5	NPD
Protection against the ingress of foreign bodies	4.2.6	Protected (> 1.3mm)
Response to slowly developing fires	4.2.7	Correct operation
Software controlled detector (when provided)	4.2.8	Documentation, design and storage correct
Nominal activation conditions / sensitivity		
Repeatability	4.3.1	m_{\max}/m_{\min} 1.6; m_{\min} 0.05dB/m
Directional dependence	4.3.2	m_{\max}/m_{\min} 1.6; m_{\min} 0.05dB/m
Reproducibility	4.3.3	m_{\max}/m_{av} 1.33; m_{av}/m_{\min} 1.5 m_{\min} 0.05dB/m
Response delay (response time)		
Air movement	4.4.1	0.625 $\frac{[(m_{(0.2)\max} + m_{(0.2)\min}) / (m_{(1.0)\max} + m_{(1.0)\min})]}{1.6}$
Dazzling	4.4.2	Correct operation; m_{\max}/m_{\min} 1.6 in both directions
Tolerance to supply voltage: Variation in supply parameters	4.5	m_{\max}/m_{\min} 1.6; m_{\min} 0.05dB/m
Performance parameters under fire conditions: Fire sensitivity	4.6	All specimens in alarm before end of test

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Durability of nominal activation conditions / sensitivity		
Temperature resistance		
Cold (operational)	4.7.1.1	Correct operation; $m_{\max}/m_{\min} \leq 1.6$
Dry heat (operational)	4.7.1.2	Correct operation; $m_{\max}/m_{\min} \leq 1.6$
Humidity resistance:		
Damp heat, steady-state (operational)	4.7.2.1	Correct operation; $m_{\max}/m_{\min} \leq 1.6$
Damp heat, steady-state (endurance)	4.7.2.2	Correct operation; $m_{\max}/m_{\min} \leq 1.6$
Corrosion resistance		
Sulfur dioxide (SO ₂) corrosion (endurance)	4.7.3	Correct operation; $m_{\max}/m_{\min} \leq 1.6$
Vibration resistance		
Shock (operational)	4.7.4.1	Correct operation; $m_{\max}/m_{\min} \leq 1.6$
Impact (operational)	4.7.4.2	Correct operation; $m_{\max}/m_{\min} \leq 1.6$
Vibration, sinusoidal (operational)	4.7.4.3	Correct operation; $m_{\max}/m_{\min} \leq 1.6$
Vibration, sinusoidal (endurance)	4.7.4.4	Correct operation; $m_{\max}/m_{\min} \leq 1.6$
Electrical stability: EMC, Immunity tests (operational)	4.7.5	Correct operation; $m_{\max}/m_{\min} \leq 1.6$

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): K. Yajima
 (Printed name): Kazunari Yajima
 (Title): Director

Place and date of issue

Mie, Japan, 17, Sept. 2024

Authorized Representative in EU:

(Signature): W. Kuhl
 (Printed Name): Wolfram Kuhl
 (Date): Hamburg, 27.09.2024

Panasonic Testing Centre

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