

DECLARATION OF PERFORMANCE

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

and amended by Regulation (EU) No 574/2014

Document No.0786-CPR-21784....

1. Unique identification code of the product-type:

Type 2841 Intrinsically safe analog heat 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:

EN54-5:2017+A1:2018

Notified body:

VdS Schadenverhütung GmbH Accreditation No. 0786

Certificate of constancy of performance: 0786-CPR-21784

- 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 EN54-5:2017+A1:2018	Performance
Operational reliability		
Position of heat sensitive element	4.2.1	Distance $\geq 15\text{mm}$
Individual alarm indication	4.2.2	Red LED
Connection of ancillary devices	4.2.3	NPD
Monitoring of detachable detectors	4.2.4	Correct operation
Manufacturer's adjustments	4.2.5	Special means required Change of settings impossible
On-site adjustment of response behaviour	4.2.6	NPD
Software controlled detector (when provided)	4.2.7	Documentation, design and storage correct
Nominal activation conditions / sensitivity		
Directional dependence	4.3.1	A1: 1 min 0 s $\leq t \leq$ 4 min 20 s A2: 2 min 0 s $\leq t \leq$ 5 min 30 s B: 2 min 0 s $\leq t \leq$ 5 min 30 s
Static response temperature	4.3.2	A1: 54°C $\leq T \leq$ 65°C A2: 54°C $\leq T \leq$ 70°C A1: 69°C $\leq T \leq$ 85°C
Response times from typical application temperature	4.3.3	For all rates of rise in A1, A2, B: lower limit $\leq t \leq$ upper limit
Response times from 25 °C	4.3.4	Category B: @3K/min: t > 7 min 13 s @20K/min: t > 1 min 0 s
Response times from high ambient temperature	4.3.5	Correct operation; For all rates of rise in A1, A2, B: lower limit $\leq t \leq$ upper limit
Reproducibility	4.3.6	For all rates of rise in A1, A2, B: lower limit $\leq t \leq$ upper limit

Response delay (response time)		
Additional test for suffix S detectors	4.4.1	Category A2S: Category BS: Correct operation; For all rates of rise: $t > \text{lower limit}$
Additional test for suffix R detectors	4.4.2	NPD
Tolerance to supply voltage		
Variation in supply parameters	4.5.1	For all rates of rise: $\text{lower limit} \leq t \leq \text{upper limit}$
Durability of nominal activation conditions / sensitivity		
Temperature resistance		
Cold (operational)	4.6.1.1	Correct operation; For 3K/min and 20K/min: $t > \text{lower limit}$ $\Delta t < \text{limit}$
Dry heat (endurance)	4.6.1.2	NPD
Humidity resistance		
Damp heat, cyclic (operational)	4.6.2.1	Correct operation; For 3K/min and 20K/min: $t > \text{lower limit}$ $\Delta t < \text{limit}$
Damp heat, steady-state (endurance)	4.6.2.2	Correct operation; For 3K/min and 20K/min: $t > \text{lower limit}$ $\Delta t < \text{limit}$
Corrosion resistance: Sulphur dioxide (SO ₂) corrosion (endurance)	4.6.3	Correct operation; For 3K/min and 20K/min: $t > \text{lower limit}$ $\Delta t < \text{limit}$

Vibration resistance		
Shock (operational)	4.6.4.1	Correct operation; For 3K/min and 20K/min: $t > \text{lower limit}$ $\Delta t < \text{limit}$
Impact (operational)	4.6.4.2	Correct operation; For 3K/min and 20K/min: $t > \text{lower limit}$ $\Delta t < \text{limit}$
Vibration, sinusoidal (operational)	4.6.4.3	Correct operation; For 3K/min and 20K/min: $t > \text{lower limit}$ $\Delta t < \text{limit}$
Vibration, sinusoidal (endurance)	4.6.4.4	Correct operation; For 3K/min and 20K/min: $t > \text{lower limit}$ $\Delta t < \text{limit}$
Electrical stability: EMC, Immunity tests (operational)	4.6.5	Correct operation; For 3K/min and 20K/min: $t > \text{lower limit}$ $\Delta t < \text{limit}$

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. Kühl
(Printed Name): Wolfram Kühl
(Date): Hamburg, 27.09.2024
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