

## **DECLARATION OF PERFORMANCE** (in accordance with the Construction Products Regulation EU 305/2011)

**No. AAENANA-01062001**

1. Unique identification code of the product type:

**Alarmline II Analogue EN Controller (AAECU)  
Alarmline II Analogue EN EOL Unit (AAECU-EOL)  
Alarmline II Analogue EN Junction Box (AAECU-JUN)  
Alarmline II Analogue EN PVC cable (AAE-xxxx - xxxx denotes cable length in metres)**

Description:

**Resettable line-type heat detector**

2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4) of the CPR:

**See product label and serial number printed on product**

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

**Fire and/or overheat detection installed in and around buildings,  
civil engineering works and other equivalent uses.**

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):

**Thermocable Flexible Elements Ltd  
Pasture Lane  
Clayton, Bradford  
BD14 6LU  
United Kingdom**

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):

**Not applicable**

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:

**System 1**

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

**EN54-22:2015 (approved by CEN 19 March 2015)  
VdS Schadenverhütung GmbH performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity of the factory production control**

## 8.Declared Performance:

Essential characteristics	Performance	Technical Specification
<b>Nominal activation conditions / sensitivity</b> Individual alarm indication Signalling Repeatability Reproducibility <b>Operational reliability</b> Connection of ancillary devices (if applicable) Manufacturer's adjustments (if applicable) Requirements for software controlled detectors (if applicable) Sensing element fault On-site adjustment of response behaviour (if applicable) Maximum ambient temperature test (sensing element)	Red LED Power; alarm and fault status signalled $t(3)_{max} : t(3)_{min} \leq 1,3; t(20)_{max} : t(20)_{min} \leq 1,6$ $t(3)_{max} : t(3)_{min} \leq 1,3; t(20)_{max} : t(20)_{min} \leq 1,6$ No functional effect Special means required Modular structure / invalid data not permitted / program deadlock avoided / site specific data in non-volatile memory with >10 year retention. Fault signal $\leq 300s$ , no alarm Special means required, settings clearly marked No alarm or fault during conditioning. Afterwards alarm given	EN54-22:2015
<b>Tolerance to supply voltage</b> Variation in supply parameters Low voltage fault	$t(3)_{max} : t(3)_{min} \leq 1,3$ Fault signal $\leq 100s$	EN54-22:2015
<b>Performance parameters under fire conditions</b> Fire sensitivity for room protection application Static response temperature test	Alarm at assigned response classes (A1I, A2I) Alarm at assigned response class (BI)	EN54-22:2015
<b>Durability of Nominal activation conditions/sensitivity</b> <b>Temperature resistance:</b> Dry heat (operational) sensor control unit Dry heat (endurance) sensing element Cold (operational) sensing element Cold (operational) for sensor control unit	$t(3)_{max} : t(3)_{min} \leq 1,3$ ; no false operation during 16 h at 55 °C (Group II) $t(3)_{max} : t(3)_{min} \leq 1,3$ ; no false operation after 21 d at high temperature (Group II, III; response Class A to B) $t(3)_{max} : t(3)_{min} \leq 1,3$ ; no false operation during 16 h at -10 °C (Group II) $t(3)_{max} : t(3)_{min} \leq 1,3$ ; no false operation during 16 h at -10 °C (Group II)	EN54-22:2015

<p><b>Humidity resistance</b></p> <p>Damp heat, steady state (endurance) for sensor control unit and sensing element</p> <p>Damp heat, cyclic (operational) for sensing element</p> <p>Damp heat, cyclic (operational) for sensor control unit (if applicable)</p> <p>Damp heat, steady state (operational) for sensor control unit (if applicable)</p> <p>Damp heat, cyclic (endurance) for sensor control unit and sensing element (if applicable)</p>	<p>t(3)max : t(3)min ≤ 1,3; no false operation after 21 d at 40 °C and 93 % RH</p> <p>t(3)max : t(3)min ≤ 1,3; no false operation during 2 cycles at 40 °C and 93 % RH (Group II)</p> <p>t(3)max : t(3)min ≤ 1,3; no false operation during 2 cycles at 40 °C and 93 % RH (Group II)</p> <p>Not applicable to Group II</p> <p>Not applicable to Group II</p>	<p>EN54-22:2015</p>
<p><b>Shock and vibration resistance</b></p> <p>Shock (operational) for sensor control unit (if applicable)</p> <p>Impact (operational) for sensor control unit</p> <p>Impact (operational) for sensing element</p> <p>Vibration, sinusoidal (operational) for sensor control unit</p> <p>Vibration, sinusoidal (operational) for sensing element</p> <p>Vibration, sinusoidal (endurance) for sensor control unit</p> <p>Vibration, sinusoidal (endurance) for sensing element</p>	<p>t(3)max : t(3)min ≤ 1,3; no false operation during 18 6 ms shock pulses of 1000 – (200 x M) m s-2 (Group II and III)</p> <p>t(3)max : t(3)min ≤ 1,3; no false operation after 3 0,5 J impacts</p> <p>t(3)max : t(3)min ≤ 1,3; no false operation during impact</p> <p>t(3)max : t(3)min ≤ 1,3; no false operation during vibration for a sweep between 10 and 150 Hz at 5 m s-2 (Group II and III)</p> <p>t(3)max : t(3)min ≤ 1,3; no false operation during vibration for a sweep between 10 and 150 Hz at 5 m s-2 (Group II and III)</p> <p>t(3)max : t(3)min ≤ 1,3; no false operation after vibration for 20 sweeps between 10 and 150 Hz at 10 m s-2 (Group II and III)</p> <p>t(3)max : t(3)min ≤ 1,3; no false operation after vibration for 20 sweeps between 10 and 150 Hz at 10 m s-2 (Group II and III)</p>	<p>EN54-22:2015</p>
<p><b>Corrosion resistance</b></p> <p>Sulphur dioxide (SO<sub>2</sub>) corrosion (endurance) for sensing element</p> <p>Sulphur dioxide (SO<sub>2</sub>) corrosion (endurance) for sensor control unit (if applicable)</p>	<p>t(3)max : t(3)min ≤ 1,3; no false operation after 21 d at 25 °C, 93 % RH and 25 µl/l SO<sub>2</sub> content (Group II and III)</p> <p>t(3)max : t(3)min ≤ 1,3; no false operation after 21 d at 25 °C, 93 % RH and 25 µl/l SO<sub>2</sub> content (Group II and III)</p>	
<p><b>Electrical stability</b></p> <p>EMC, immunity</p>	<p>t(3)max : t(3)min ≤ 1,3; no false operation when applying electrostatic discharge, radiated electromagnetic fields, conducted disturbances induced by electromagnetic fields, fast transient burst and slow high energy voltage surges</p>	

# Thermocable

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9. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

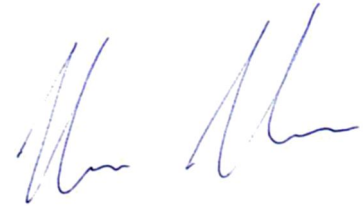
**Signed for and on behalf of the manufacturer by:**

**Thomas Robst – Technical Director**

.....  
**(name and function)**

Thermocable Flexible Elements Ltd  
Bradford, United Kingdom  
**on 1<sup>st</sup> June 2020**

.....  
**(placed and date of issue)**



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**(signature)**