

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

No. PRENDIG-24081903

1 . Unique identification code of the product type:

**ProReact Digital Sensor Control Unit – DSCU-EN
ProReact EN Digital Linear Heat Detection Cable – EN68, EN78, EN88, EN68SS, EN78SS, EN88SS
ProReact Digital End-of-line Unit – EOLU-EN**

Description:

**Non-resettable line-type heat detector
(sensor control unit, sensing element, functional unit)**

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):

**Thermocable (Flexible Elements) IRE Ltd, Ground Floor, 71 Lower Baggot Street, Dublin, D02
P593, Ireland**

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:

**EN54-28:2016 (approved by CEN 13 December 2015)
UL International (UK) Ltd 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:

Environmental Group II (EGII) – ProReact EN Digital Sensor Control Unit (DSCU-EN), EN68 & EN68SS

Environmental Group III (EGIII) – ProReact EN Digital End-of-line Unit (EOLU-EN), EN78, EN78SS, EN88, EN88SS

Essential characteristics	Performance	Technical Specification
Nominal activation conditions / sensitivity Individual alarm indication Signalling Operational reliability Maximum ambient temperature test (endurance) for sensing element 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)	Red LED (per Zone) Power; alarm and fault status signalled per zone Meets manufacturer's declared values (°C) 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 <100s, no alarm Not applicable	EN54-28:2016
Tolerance to supply voltage Variation in supply parameters Low voltage fault (if applicable)	Meets manufacturer's declared values (V) Fault signal <100s, no alarm	EN54-28:2016
Performance parameters under fire conditions Performance and reproducibility test	Meets manufacturer's declared values (°C, %)	EN54-28:2016
Durability of performance parameters under fire conditions Temperature resistance: Dry heat (operational) sensor control unit Cold (operational) sensing element Cold (operational) for sensor control unit	No false operation during 16 h at 55°C (EGII); alarms given after simulation No false operation during 16h at 70°C (EGIII); Alarms given after simulation No false operation during 16 h at -10°C (EGII); meets manufacturer's declared values No false operation during 16 h at -40°C (EGIII); meets manufacturer's declared values No false operation during 16 h at -10°C (EGII); meets manufacturer's declared values No false operation during 16 h at -40°C (EGIII); meets manufacturer's declared values	EN54-28:2016

<p>Humidity resistance</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 sensing control unit (if applicable)</p> <p>Damp heat, cyclic (endurance) for sensor control unit and sensing element (if applicable)</p>	<p>No false operation after 21 d at 40°C and 93% RH; meets manufacturer's declared values</p> <p>No false operation during 2 cycles at 40°C and 93% RH (EGII); meets manufacturer's declared values</p> <p>No false operation during 2 cycles at 40°C and 93%RH (EGII); meets manufacturer's declared values</p> <p>No false operation during 2 cycles at 55°C and 93%RH (EGIII); meets manufacturer's declared values</p> <p>Not applicable (EGI only)</p> <p>No false operation during 6 cycles at 55°C and 93%RH (EGIII); meets manufacturer's declared values</p>	
<p>Shock and vibration resistance</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 sensing 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>No false operation during 18 6ms shock pulses of 1000 – (200 X M) ms⁻² (EGII & EGIII); alarms given after simulation</p> <p>No false operational after three 0,5 J impacts; alarms given after simulation</p> <p>No false operation during impact; no visible cracking or cutting of the sheath; meets manufacturer's declared values</p> <p>No false operation during vibration for a sweep between 10Hz and 150Hz at 5ms⁻² (EGII & EGIII); alarms given after simulation</p> <p>No false operation during vibration for a sweep between 10Hz and 150Hz at 5ms⁻² (EGII & EGIII); alarms given after simulation</p> <p>No false operation after vibration for 20 sweeps between 10Hz and 150Hz at 10ms⁻² (EGII & EGIII); alarms given after simulation</p> <p>No false operation after vibration for 20 sweeps between 10Hz and 150Hz at 10ms⁻² (EGII & EGIII); alarms given after simulation</p>	<p>EN54-28:2016</p>
<p>Corrosion resistance</p> <p>Sulphur dioxide (SO₂) corrosion (endurance) for sensing element</p> <p>Sulphur dioxide (SO₂) corrosion (endurance) for sensor control unit (if applicable)</p>	<p>No false operation after 21d at 25°C, 93% RH and 25µl/l SO₂ content (EGII & EGIII); meets manufacturer's declared values</p> <p>No false operation after 21d at 25°C, 93% RH and 25µl/l SO₂ content (EGII & EGIII); alarms given after simulation</p>	

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Electrical stability EMC, immunity	No false operation when applying electrostatic discharge, radiated electromagnetic fields, conducted disturbances induced by electromagnetic fields, fast transient bursts and slow high energy voltage surges; alarms given after simulation	EN54-28:2016
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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.

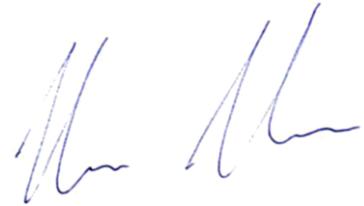
Signed for and on behalf of the manufacturer by:

Thomas Robst – Technical Director

.....
(name and function)

Thermocable Flexible Elements Ltd
Bradford, United Kingdom
on 26th May 2023

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



.....
(signature)