EU-TYPE EXAMINATION

CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

1. **EU-Type Examination Certificate Number:** **ITS17ATEX201515X** **Issue 01**

2. **Product:** TP7-D & TP9-A Digital Thermometers

3. **Manufacturer:** Thermoprobe Inc.

4. **Address:** 112A Jetport Dr, Pearl, MS 39208, USA

5. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

6. Intertek Testing and Certification Limited, Notified Body number 0359 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council dated 26 February 2014, certifies that the product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

7. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012 + A11:2013 and EN 60079-11:2012 except in respect of those requirements referred to within item 14 of the Schedule.

8. If the sign “X” is placed after the certificate number, it indicates that the product is subject to the special conditions of use specified in the Schedule to this certificate.

9. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

10. The marking of the product shall include the following:

II 1 G Ex ia IIB T4 Ga

-20°C ≤ Ta ≤ +40°C (not marked)

Certification Officer: Kevin J. Wolf **Date:** 21 February 2019

Kevin J. Wolf

SCHEDULE:

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11. Description of Equipment or Protective System

The Thermoprobe model TP7-D and TP9-A are portable battery powered thermometers. Temperature measurement is displayed through a digital display on the equipment fascia.

Equipment enclosures are produced from stainless steel. The TP7-D utilises a cylindrical enclosure with an approximate diameter of 18cm and a height of 8.5cm. The top face of the enclosure utilises an LCD display. A resistive temperature sensor is attached by an integral cable which may have a length up to 50m. The body of the instrument acts as a winding drum to store the sensor cable. A non-metallic cylindrical carry handle with an approximate diameter of 4cm and height of 12cm is mounted off the main enclosure and additionally acts as a holder for the sensor head when not in use.

The TP9-A circuitry is housed within a rectangular cuboidal enclosure with approximate dimensions of 13cm x 7.5mm x 11.5cm. This is attached to a metallic backing plate which additionally mounts the carry handle and probe holster. A resistive temperature sensor is attached by an integral cable which may have a length up to 50m. The cable is wound around a spool located behind the metallic backing plate.

Equipment is powered by two internally mounted AA cells and has been tested for use with the following models. Refer to the manufacturers' instruction manual for the relevant safety information when changing cells.

Manufacturer	**Model**
Duracell AA (LR6)	MN1500
Panasonic AA (LR6)	LR6XWA
GP (Gold Peak) AA (LR6)	GP15A

12. Report Number

Intertek Report:
102791310DAL-006 Dated: April 2017
103815196DAL-002 Dated: February 2019

13. Special Conditions of Certification

(a). Special Conditions of Use

• The following metal parts have been considered isolated when the bonding connection is not made and have the potential to hold charge. See below for measured capacitance values:

TP7-D main enclosure:	428.7pF
TP9-A main enclosure:	56.4pF
Bonding clip:	64.1pF
Probe head:	89.7pF

• Refer to the manufacturers' instruction manual for details on the mitigation of electrical discharge.

SCHEDULE:

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(b). Conditions of Manufacture - Routine Tests

- N/A

14. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report: 102791310DAL-006 dated April 2017

15. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
*TP7D SERIAL & DATA PLATE	TP7D-SNPL-009-CD	5	02/08/2019
*TP9A SERIAL PLATE	TP9A-SNPL-009-CD	6	02/08/2019
*TP7D ASSEMBLY	TP7D-ASSY-008-CD	3	01/22/2019
*TP9A PRODUCTION ASSEMBLY	TP9A-ASSY-001-CD	3	01/22/2019
TP9A_TP7D C15 Board	C15-BOM-001-CD	0	08/19/2016
C15 Board Circuit Revision 3.1 For Certification of Models TP7-C and TP9-A	C15-BRD-001-CD	3.1	07/15/2016
C15 BOARDV3.1 LAYOUT & SPECS	C15-LYT-001-CD	0	08/08/2016
TP7D ASSEMBLY BILL OF MATERIALS	TP7D-BOM-001-CD	1	03/22/2017
TP9A ASSEMBLY BILL OF MATERIALS	TP9A-BOM-001-CD	0	08/01/2016
*PROBE ASSEMBLY 2 OR 3 CONDUCTOR CABLE WITH ARAMID SHEATH	TPPG-ASSY-001-CD	9	01/22/2019
PROBE ASSEMBLY RTD SENSOR DETAIL	TPPG-RTD-009-CD	0	07/27/2016

*Note: An * is included before the title of documents that are new or revised.*

16. Details of Certificate changes Issue 1

- Removal of resistance note between binding clip and probe in drawings TP7D-ASSY-008-CD and TP9A-ASSY-001-CD
- Modification of stainless-steel material notes in drawing TPPG-ASSY-001-CD to include requirements for EPL Ga per IEC 60079-0.
- Modification of label to remove US/CAN Class and Division markings.