



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEX ETL 16.0051X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 3	Issue 2 (2021-04-22)
Date of Issue:	2023-03-24		Issue 1 (2019-02-21)
Applicant:	Thermoprobe Inc. 112A Jetport Dr, Pearl, MS 39208 United States of America		Issue 0 (2017-04-27)
Equipment:	TP7-D & TP9-A Digital Thermometers		
Optional accessory:			
Type of Protection:	Intrinsic Safety 'ia'		
Marking:	Ex ia IIB T4 Ga -20°C ≤ Ta ≤ +40°C (not marked) IECEX ETL 16.0051X		

Approved for issue on behalf of the IECEx
Certification Body:

Todd L. Relyea

Position:

Certification Officer

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Intertek
3933 US Route 11 South
Cortland NY 13045-2995
United States of America

intertek



IECEX Certificate of Conformity

Certificate No.: **IECEX ETL 16.0051X**

Page 2 of 4

Date of issue: 2023-03-24

Issue No: 3

Manufacturer: **Thermoprobe Inc.**
112A Jetport Dr, Pearl, MS 39208
United States of America

Manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[US/ETL/ExTR16.0074/00](#)
[US/ETL/ExTR16.0074/03](#)

[US/ETL/ExTR16.0074/01](#)

[US/ETL/ExTR16.0074/02](#)

Quality Assessment Report:

[GB/ITS/QAR12.0001/10](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX ETL 16.0051X**

Page 3 of 4

Date of issue: 2023-03-24

Issue No: 3

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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-C 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 internal 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

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 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 manufacturer's instruction manual for details on the mitigation of electrical discharge.



IECEX Certificate of Conformity

Certificate No.: **IECEX ETL 16.0051X**

Page 4 of 4

Date of issue: 2023-03-24

Issue No: 3

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Added alternate circuit board, C22.

Updated critical drawing list.

Removed drawings "TP7D-BOM-001-CD & TP9A-BOM-001-CD"

Annex:

[SFT-IECEX-OP-19f - Annex for IECEx ETL 16.0052X_1.pdf](#)



Annex to IECEx Certificate of Conformity

Certificate No:	IECEX ETL 16.0052X	Issue No. 3
Annex No. 0		

Technical Documents			
Title:	Drawing No.:	Rev. Level:	Date:
TP7D SERIAL & DATA PLATE	TP7D-SNPL-009-CD	6	09/22/2020
TP9A SERIAL PLATE	TP9A-SNPL-009-CD	7	09/22/2020
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	TP7D-ASSY-008-CD	3	01/22/2019
TP9A PRODUCTION ASSEMBLY	TP9A-ASSY-001-CD	3	01/22/2019
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
*C22-Brd	C22-BRD-001-CD	1.0	12/21/2022
*TP9A_TP7D C22 Board	C22-BOM-001-CD	0	01/24/2023
*C22 Board Layout & Specs	C22-LYT-001-CD	0	12/27/2022
*SAFETY INSTRUCTIONS - TP7-D & TP9-A	N/A	022023	02/2023