



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx ETL 16.0051X Issue No: 0 Certificate history:
Issue No. 0 (2017-04-27)

Status: **Current** Page 1 of 4

Date of Issue: **2017-04-27**

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

Equipment: **TP7D and TP9A 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:*

Kevin J. Wolf

Position:

Certification officer

*Signature:
(for printed version)*

Date:

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 the [Official IECEx Website](#).

Certificate issued by:

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





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

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0
IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

*This Certificate **does not** indicate compliance with electrical 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 Report:

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

Quality Assessment Report:

[GB/ITS/QAR12.0001/05](#)



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Schedule

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 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

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to the attached Annex for a list of the special conditions for safe use.



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Additional information:

Annex:

[Annex to IECEx ETL 16.0051X Issue 0.pdf](#)



IECEX Certificate of Conformity

Certificate No:	IECEX ETL 16.0051X	Issue No. 0
Annex No. 1		

The following drawing list relates to IECEx ETL 16.0051X Issue 0, TP7-D and TP9-A Digital Thermocouples

Title:	Drawing No.:	Rev. Level:	Date:
TP7-D SERIAL & DATA PLATE	TP7D-SNPL-009-CD	3	4/18/17
TP9A SERIAL PLATE	TP9A-SNPL-009-CD	4	4/18/17
TP7D ASSEMBLY	TP7D-ASSY-008-CD	2	4/6/17
TP9A PRODUCTION ASSEMBLY	TP9A-ASSY-001-CD	2	4/6/17
TP9A_TP7D C15 Board	C15-BOM-001-CD	0	2016.08.19
C15 Board Circuit Revision 3.1 For Certification of Models TP7-C and TP9-A	C15-BRD-001-CD	3.1	July 15, 2016
C15 BOARDV3.1 LAYOUT & SPECS	C15-LYT-001-CD	0	8/8/2016
TP7D ASSEMBLY BILL OF MATERIALS	TP7D-BOM-001-CD	1	3/22/2017
TP9A ASSEMBLY BILL OF MATERIALS	TP9A-BOM-001-CD	0	8/1/2016
PROBE ASSEMBLY 2 OR 3 CONDUCTOR CABLE WITH ARAMID SHEATH	TPPG-ASSY-001-CD	8	8/19/16
PROBE ASSEMBLY RTD SENSOR DETAIL	TPPG-RTD-009-CD	0	7/27/16

The following special conditions for safe use apply to certificate IECEx ETL 16.0051X Issue 0, TP7-D and TP9-A Digital Thermocouples

The following metal parts have been considered isolated when the bonding connection is not made and have the potential to hold charge.

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.

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