

EC-TYPE EXAMINATION CERTIFICATE



[1]

[2]

**Equipment or Protective System intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

[3]

EC-Type Examination Certificate Number: **DEMKO 11 ATEX 1104891X Rev. 0**

[4]

Equipment or Protective System: **Thermometer Types TP7-C and TP9**

[5]

Manufacturer: **THERMOPROBE INC**

[6]

Address: **112A Jet Port Dr, Pearl, MS, 39208, USA**

[7]

This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8]

UL International Demko A/S, notified body number 0539 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. **11NK04891**

[9]

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2009

EN 60079-11:2007

[10]

If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11]

This EC-Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by the certificate.

[12]

The marking of the equipment or protective system shall include the following:

 **II 2 (1) G Ex ib [ia] IIB T4**

Certification Manager

Jan-Erik Storgaard

Date of issue: 2012-09-21

Notified Body

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[14]

Schedule
EC-TYPE EXAMINATION CERTIFICATE No.
DEMKO 11 ATEX 1104891X Rev. 0
Report: 11NK04891

[15]

Description of Equipment or protective system

The type **TP7-C** thermometer has plastic and metal enclosure containing a printed circuit board and liquid crystal display. A resistive temperature sensor is attached by an integral cable which may be up to 50m long. The body of the instrument acts as a winding drum to store the sensor cable. A bonding connection for the meter is provided by a spring clip attached by an integral cable. The meter is powered from two AA internally fitted batteries. The unit is operated by pressing the primary power button, the function button provided access to the calibration menu.

The type **TP9** thermometer utilises the same printed circuit board as the Model TP7-C, the main difference is that the enclosure is made from stainless steel and is fitted with a plastic handle.

The ambient temperature range is -20 °C to +40 °C.
The maximum measurement range is -40 °C to +290 °C

The maximum probe cable length permitted is 50 m.

Electrical data: 3 V dc

User instructions

Refer to "USER INSTRUCTIONS – TP7C & TP9".

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Report No.

Project Report No.: 11NK04981 (Hazardous Location Testing)

Documents:

Description:

Drawing No.:

Rev. Level:

Date:

TP7C ASSEMBLY	TP7C-ASSY-005-CD	3	2012-02-16
TP7C ASSEMBLY BOM	TP7C-BOM-001-CD	2	2012-05-09
TP7C SERIAL PLATE (Label)	TP7C-SNPL-003-CD	1	2012-02-02
TP9 PRODUCTION ASSEMBLY	TP9-ASSY-001-CD	3	2012-02-16
TP9 ASSEMBLY BOM	TP9-BOM-001-CD	1	2012-05-09
TP9 SERIAL PLATE (Label)	TP9-SNPL-009-CD	1	2012-01-26
C10-BOARD CIRCUIT (2 pages)	C10-CKT-001-CD	3.23	2012-02-14
C10 BOARD BOM	C10-BOM-001-CD	2	2012-02-06
C10 BOARD V3.23 LAYOUT & SPECS	C10-LYT-001-CD	3	2012-02-06
PT1000 TEMPERATURE PROBE ASSEMBLY	P1000-13041-X	-	2006-08-02
PROBE ASSEMBLY COAXIAL CABLE WITH ARAMID SHEATH	TPPG-ASSY-001-CD	6	2012-08-02
PROBE ASSEMBLY BOM	TPPG-BOM-001-CD	0	2011-10-28
TP7C WIRE INSTALLATION	TP7C-WIRE-006-CD	0	2012-02-08
USER INSTRUCTIONS – TP7C & TP9	-	4	2012-09



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Schedule
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Special conditions for safe use:

- The body of both the model TP7-C and the Model TP9 are classified as Category 2 equipment and are not permitted in hazardous areas designated Zone 0.
- The temperature sensing probe and its connecting cable are classified as Category 1 equipment and may be used in hazardous areas designated Zone 0.
- Only the listed batteries are permitted: Duracell MN 1500 or Gold Peak GP15A or Panasonic LR6XWA.
- The batteries must not be changed in the Hazardous Location.

[18]

Essential Health and Safety Requirements

Concerning ESR this Schedule verifies compliance with the Annex III of ATEX directive only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

