

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 CO09993X Rev. 0**

[4]

Equipment or Protective System: **Thermometer Types TL1-A, TL1-W, TL1-R**

[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 G Ex ib IIC T4**

Certification Manager

Jan-Erik Storgaard

Date of issue: 2012-09-21

Notified Body

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Schedule
EC-TYPE EXAMINATION CERTIFICATE No.
DEMKO 11 ATEX CO09993X Rev. 0
Report: 11NK04891

[15]

Description of Equipment or protective system

Type **TL1-A** thermometer has a metal and plastic enclosure containing a printed circuit board and a liquid crystal display. A resistive temperature sensor is enclosed in a metal probe. The meter is powered from an internally fitted Coin cell (IEC CR2032) type battery.

Type **TL1-W** thermometer is a modified version of the model TL1-A. It features an anodised aluminium frame for reinforcement and is powered from two AAA Batteries.

Type **TL1-R** thermometer has a metal and plastic enclosure containing a printed circuit board (with filter board for improved precision and stability) and a liquid crystal display. A resistive temperature sensor is enclosed in a metal probe. The meter is powered from two AAA Batteries.

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

Minimum Probe Length: 200 mm (8 inches)
Maximum Probe Length : 600 mm (24 inches)

Electrical data: 3V dc

User instructions

Refer to "TL1 SERIES INSTRUCTIONS".

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Report No.

Project Report No.: 11NK04891 (Hazardous Location Testing)

Documents:

Description:	Drawing No.:	Rev. Level:	Date:
TL1A ASSEMBLY	TL1A-ASSY-001-CD	6	2012-08-21
TL1A ID PLATES (Label)	TL1A-SNPLT-002-CD	2	2012-01-02
TL1R ASSEMBLY	TL1R-ASSY-001-CD	4	2012-08-22
TL1W ASSEMBLY	TL1W-ASSY-001-CD	10	2012-08-22
TL1A & TL1R ASSEMBLY BOM	TL1A&R-BOM-001-CD	2	2012-07-27
TL1W BOM	TL1W-BOM-001-CD	4	2012-07-27
FILTER BOARD BOM (TL1R)	FLTR-BOM-001-CD	0	2011-10-28
FILTER BOARD CIRCUIT (TL1R)	FLTR-CKT-001-CD	0	2011-04-28
FILTER BOARD LAYOUT	FLTR-LYT-001-CD	1	2012-02-07
PTLA BOARD CIRCUIT REV 1.4 FOR CERTIFICATION OF MODELS TL1-A, TL1-R and TL1-W	PTLA-CKT-001-CD	1.4	2012-02-14
PTLA BOARD BOM	PTLA-BOM-001-CD	3	2012-02-15
PTLA BOARD LAYOUT & SPECS	PTLA-LYT-001-CD	4	2012-02-06
TL1W WIRE INSTALLATION	TL1W-WIRE-005-CD	1	2012-07-11
TL1R WIRE INSTALLATION	TL1R-WIRE-002-CD	1	2012-07-11
TL1A WIRE INSTALLATION	TL1A-WIRE-010-CD	0	2012-07-11
100 OHM REDUCED TIP RTD	P0405 (2 pages)	-	2007-03-23
BILL OF MATERIALS	P040501 (1 page)	-	2007-03-29
TL1 SERIES INSTRUCTIONS	-	4	2012-09



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[14]

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Special conditions for safe use:

- Only the listed batteries are permitted: Duracell DL2032, Duracell MN2400, Gold Peak GP 24A, Panasonic LR03XWA
- The batteries must not be changed in the Hazardous Location

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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.

