

# [1] EC-TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protected System Intended for use  
in Potentially explosive atmospheres  
Directive 94/9/EC

[3] EC-Type Examination Certificate Number: **Nemko 03ATEX1470X** Issue 4

[4] Equipment or Protective System: **Thermostat**

[5] Applicant/ Manufacturer: **Tranberg A/S**  
[6] Address: **Strandsvingen 6  
P.O. Box 8033  
N-4068 Stavanger  
NORWAY**

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

[8] Nemko AS, notified body number 0470 in accordance with Article 9 of 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 the 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. 231577

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
CENELEC EN 60079-0: 2012, CENELEC EN 60079-18: 2009

[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 this certificate.

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

 **II 2G**      **Ex mb IIC T6 Gb -50°C ≤ Ta ≤ +50°C**

Oslo, 2013-09-04

**Bjørn Spongsveen**  
Certification Manager

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**[13] Schedule****[14] EC-TYPE EXAMINATION CERTIFICATE No Nemko 03ATEX1470X Issue 4****[15] Description of Equipment or Protective System**

This Certificate covers an Ambient Air Thermostat with potting in a brass or stainless steel enclosure. Used for example together with an enclosure heater.

**Type Designation**

M20 version:

Brass	Chromium-plated Brass	Acid resistant SS	Opening temp. (OFF)	Closing temp. (ON)
5023 9200	5023 9201	5023 9202	+11,7°C +/- 2,8°C	+3,3 °C +/- 3,3°C
5023 9210	5023 9211	5023 9212	-2,8°C +/- 2,8°C	-10°C +/- 3,3°C
5023 9220	5023 9221	5023 9222	+20°C +/- 2,8°C	+10°C +/- 3,3°C

M25 version:

Brass	Chromium-plated Brass	Acid resistant SS	Opening temp. (OFF)	Closing temp. (ON)
5023 9250	5023 9251	5023 9252	+11,7°C +/- 2,8°C	+3,3 °C +/- 3,3°C
5023 9260	5023 9261	5023 9262	-2,8°C +/- 2,8°C	-10°C +/- 3,3°C
5023 9270	5023 9271	5023 9272	+20°C +/- 2,8°C	+10°C +/- 3,3°C

**Technical Data**

Max 250VAC

16A

**Material**

Brass, Chromium-plated brass or Acid resistant stainless steel. Red silicone gasket.

**Ingress Protection Code**

IP66 according to EN 60529. Valid for the interface between thermostat and "Ex e" enclosure.

**Maximum withstand temperature, power off**

+80°C

**[16] Report No. 231577**

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**Descriptive Documents**

Name/Number	Rev.	Date	Title/Description	Sheets
TCL3053	F	2013-04-29	Document list	1

**Routine test:**

Clause 9.1 and 9.2 in IEC/EN 60079-18, visual inspection and dielectric strength test shall be carried out by the manufacturer.

**Certificate History and Associated Nemko Reports**

Issue	Date	Report	Description
0	2003-09-29	10319	Prime Certificate released
1	2005-01-19	35327	This issue is extended for use in T <sub>a</sub> : -50°C to +50°C
2	2005-10-24	54263	This issue is extended to include a range of thermostats with a maximum opening temperature up to 40°C.
3	2011-07-08	170476	This issue confirm compliance with standard EN 60079-0:2009 and EN 60079-18:2009.
4	2013-08-30	231577	This issue confirm compliance with standard EN 60079-0:2012 and EN 60079-18:2009. In addition M25 version and an equivalent thermostat element were added.

**[17] Special Conditions for Safe Use**

The cables must be properly protected, and the connection must be carried out in an appropriate certified “Ex e” enclosure.

The thermostat must be connected to a fuse with the following ratings: Max 16A, breaking capacity 1500A.

**[18] Essential Health and Safety Requirements**

See item 9

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