

CERTIFICATE

(1) Type Examination

(2) **Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC**

(3) Type Examination Certificate Number: **DEKRA 14ATEX0008 X** Issue Number: 1

(4) Equipment: **Temperature Detectors Type S2 ... and Type TC2 ...**

(5) Manufacturer: **Minco Products, Inc.**

(6) Address: **7300 Commerce Lane NE, Minneapolis, MN 55432, USA**

(7) This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., certifies that this equipment 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 test report no. 216808300.

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

EN 60079-0 : 2012

EN 60079-15 : 2010

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

(11) This Type Examination Certificate relates only to the design, examination and tests of the specified equipment and not to the manufacturing process and supply of this equipment.

(12) The marking of the equipment shall include the following:



II 3 G

Ex nA IIC T3 ... T6 Gc

This certificate is issued on 24 January 2014 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

DEKRA Certification B.V.

R. Schuller
Certification Manager

(13) **SCHEDULE**

(14) **to Type Examination Certificate DEKRA 14ATEX0008 X**

Issue No. 1

(15) **Description**

Temperature Detectors Type S2 ... and TC2 ... are designed to be installed in babbitt style bearing shoes.

Type S2 ... models are available for 2-, 3- or 4-wire measurement circuits and with single or dual resistance temperature detector (RTD) elements.

Type TC2 ... models are available with single or dual thermocouple elements.

Rated ambient temperature range -50 °C ... +200 °C.

The temperature class is determined by the maximum ambient temperature in service.

Electrical data

Power: max. 0.45 Watt

Measuring current: max. 1 mA

Installation instructions

The manual provided with the equipment shall be followed in detail to assure proper and safe operation.

(16) **Test Report**

KEMA No. 216808300.

(17) **Special conditions for safe use**

The Temperature Detectors shall be installed in a suitable enclosure providing a degree of protection of at least IP54 according to EN 60529, taking into account the environmental conditions under which the equipment will be used.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 214730800.