



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 DEK 18.0010

Issue No: 0

Certificate history:

[Issue No. 0 \(2018-04-26\)](#)

Status: **Current**

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Date of Issue: **2018-04-26**

Applicant: **Minco Products Inc.**
7300 Commerce Lane
Minneapolis, MN 55432
United States of America

Equipment: **Resistance Temperature Detectors S102618 and S102662**

Optional accessory:

Type of Protection: **Ex ia**

Marking:
Ex ia IIC T6 ... T2 Ga

*Approved for issue on behalf of the IECEx
Certification Body:*

R. Schuller

Position:

Certification Manager

*Signature:
(for printed version)*

Date:

2018-04-26

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:

DEKRA Certification B.V.
Meander 1051,
6825 MJ Arnhem
The Netherlands





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Manufacturer: **Minco Products Inc.**
7300 Commerce Lane
Minneapolis, MN 55432
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 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:

[NL/DEK/ExTR18.0010/00](#)

Quality Assessment Report:

[NL/DEK/QAR12.0028/05](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Models S102618 and S102662 are resistance temperature detectors. They are intended to be mounted in babbitt style bearing shoes.

Ambient Temperature range: -50 °C to +200 °C

The temperature class rating of the equipment is determined according to maximum ambient temperature (process side) and the dissipated power in the sensor.

P i	Temperature Class T6	Temperature Class T5	Temperature Class T4	Temperature Class T3	Temperature Class T2
	Maximum ambient temperature				
0.1 W	+70 °C	+85 °C	+120 °C	+185 °C	+200 °C
0.2 W	+64 °C	+79 °C	+114 °C	+179 °C	+200 °C
0.4 W	+48 °C	+63 °C	+98 °C	+163 °C	+200 °C

Electrical Data

Signal and supply circuits of models S102618 and S102662:

in type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit, with the following maximum values (combining the parameters of all circuits):

$U_i = 30 \text{ V}$; $I_i = 0.1 \text{ mA}$; $P_i = 0.4 \text{ W}$; $C_i = 0$; $L_i = 0$

SPECIFIC CONDITIONS OF USE: NO



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EQUIPMENT (continued):

Model codes

S102618 - a - b - c - d - e

S102662 - a - b - c - d - e

- a = Sensing elements
- b = Number of leads
- c = Leadwire covering
- d = Lead length in inches
- e = Installation / accessory option