



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 BVS 14.0073X issue No.: 0 Certificate history: _____

Status: **Current**

Date of issue: 2014-07-09 Page 1 of 3

Applicant: **MüTec Instruments GmbH**
Bei den Kämpfen 26
21220 Seevetal
Germany

Electrical Apparatus: **Temperature Transmitter type MTP300i-SIL-***
Optional accessory:

Type of Protection: **Equipment protection by intrinsic safety "i"**

Marking: Ex ib [ia Ga] IIC T4 Gb

Approved for issue on behalf of the IECEx Certification Body: Dr. F. Eickhoff

Position: Deputy Head of Certification Body

Signature:
(for printed version)

Date:

2014-07-09

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 EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

DEKRA
DEKRA EXAM GmbH



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Manufacturer: **MüTec Instruments GmbH**
Bei den Kämpfen 26
21220 Seevetal
Germany

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 electrical 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:
DE/BVS/ExTR14.0074/00

Quality Assessment Report:
DE/BVS/QAR14.0008/00



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description

The temperature transmitter serves the purpose of recording temperatures by means of a thermal element. The electronic circuit of the temperature transmitter is accommodated in a plastic enclosure equipped with terminals for connection.

Parameters

1 Supply circuit level of protection Ex ib IIC (terminals 1 and 4)

Voltage	U_i	DC	28	V
Current	I_i		95	mA
Power	P_i		655	mW
Internal inductance	L_i			negligible
Internal capacitance	C_i		26	nF

2 Thermo couple input 1 (terminals 5 and 8) and 2 (terminals 9 and 12), circuits level of protection Ex ia IIC

Voltage	U_o	DC	1	V
Current	I_o		1,8	mA
Power	P_o		0,5	mW
External inductance	L_o		100	mH
External capacitance	C_o		10	μ F

3 Ambient temperature range

T_a -10 °C up to +70 °C

CONDITIONS OF CERTIFICATION: YES as shown below:

The temperature transmitter has to be installed outside the hazardous area or has to be mounted into an enclosure suitable for use in the relevant Ex-atmosphere.