



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 13.0074X issue No.: 0 Certificate history: _____

Status: **Current**

Date of Issue: 2014-07-14 Page 1 of 4

Applicant: **Dittmer GbR**
Carl Zeiss Straße 19
47475 Kamp-Lintfort
Germany

Electrical Apparatus: **Temperature sensor type 7.**.**.***
Optional accessory:

Type of Protection: **Equipment protection by flameproof enclosures "d"; Equipment dust ignition protection by enclosure 't'**

Marking: Ex d I Mb
Ex d IIC T* Gb
Ex tb IIIC T * °C Db

Approved for issue on behalf of the IECEx
Certification Body:

H.-Ch. Simanski

Position:

Head of Certification Body

Signature:
(for printed version)

Date:

14.7.2014

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: **Dittmer GbR**
Carl Zeiss Straße 19
47475 Kamp-Lintfort
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 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2008 Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'

*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/ExTR14.0035/00

Quality Assessment Report:
DE/BVS/QAR10.0013/01



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Subject and Type

Temperature sensor type 7.**.**.

Type 7.01.**.**., 7.02.**.**., 7.03.**.**. and 7.04.**.**. = temperature range -40 °C up to +95 °C

Type 7.11.**.**., 7.22.**.**., 7.33.**.**. and 7.44.**.**. = temperature range -40 °C up to +195 °C

Type 7.01.**.**. and 7.11.**.**. = diameter of head 30 mm

Type 7.02.**.**. and 7.22.**.**. = diameter of head 40 mm

Type 7.03.**.**. and 7.33.**.**. = diameter of head 55 mm

Type 7.04.**.**. and 7.44.**.**. = diameter of head 75 mm

Type 7.**.05.**. up to 7.**.14.**. = pipe diameter 05 up to 14 mm

Type 7.**.**. xx

xx= nominal length and number of PT 100 in plain text

Description

The temperature sensor type 7.**.**. is designed in the type of protection flameproof enclosure 'd' and protection by enclosure 't', serves the purpose of recording temperature values of mechanical components and machines..

Parameters

See page 4

CONDITIONS OF CERTIFICATION: YES as shown below:

The temperature sensor has to be connected by means of a fixed installation of the connecting cable. Thus the free end of the connecting cable has to be connected either inside a connection box meeting the requirements of a type of protection approved according to 1 of IEC 600079 or outside the hazardous area.



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EQUIPMENT(continued):

Parameters

Electrical Data

Maximum measurement voltage	up to	12	V
Measurement current	up to	3	mA
Thermoelectric voltage at 200 °C	up to	15	mV
Power	up to	120	mW

Temperature class allocated and permissible media temperatures for Group II and Group III

Permissible media temperature (max.)	Ambient temperature range	Minimum distance for mounting	Temperature class	Maximum surface temperature
80 °C	-40 °C up to +60 °C	-	T6	T 80 °C
90 °C	-40 °C up to +60 °C	-	T5	T 95 °C
130 °C	-40 °C up to +60 °C	50 mm	T4	T 130 °C
195 °C	-40 °C up to +60 °C	50 mm	T3	T 195 °C

Permissible surface temperature and media temperatures for Group I

Permissible media temperature (max.)	Ambient temperature range	Minimum distance for mounting
150 °C	-40 °C up to +60 °C	50 mm