

# 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](http://www.iecex.com)

Certificate No.: **IECEX BVS 07.0030X** issue No.:0 Certificate history:

Status: **Current**

Date of Issue: **2007-12-11** Page 1 of 3

Applicant: **ABB Automation Products GmbH**  
Schillerstraße 72  
32425 Minden  
Germany

Electrical Apparatus: **Positioner type TZIDC-200 (HART Communication), TZIDC-210 (Profibus PA), TZIDC-220 (Foundation Fieldbus FF)**  
Optional accessory:

Type of Protection: **Flameproof enclosures 'd'**

Marking: **Ex d IIC T4/T5/T6**


Approved for issue on behalf of the IECEx  
Certification Body:

Dr. R. Jockers

Position:

Head of Certification Body

Signature:  
(for printed version)

  
\_\_\_\_\_  
11.12.2007

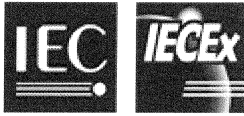
Date:

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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Certificate No.: IECEx BVS 07.0030X

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Issue No.: 0

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Manufacturer: **ABB Automation Products GmbH**  
Schillerstraße 72  
32425 Minden  
**Germany**

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 : 2004** Electrical apparatus for explosive gas atmospheres - Part 0: General requirements  
Edition: 4.0

**IEC 60079-1 : 2003** Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd'  
Edition: 5

*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:

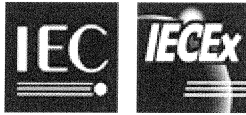
*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

DE/BVS/ExTR07.0036/00

Quality Assessment Report:

DE/TUN/QAR06.0012/00



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

#### Type

TZIDC-2XX

The "XX" will be replaced by the following code numbers for the used communication interface:

00 = HART Communication  
10 = Profibus PA  
20 = Foundation Fieldbus FF

#### Description

The positioner is designed in type of protection flameproof enclosure.  
The positioner is designed for the transmission of an electrical signal into a pneumatic signal.  
Certain variants of the electronics may be used intrinsically safe according to separate certification.  
Neither flammable gases nor oxygen or oxygen enriched gases shall be used as pressure media.

#### Parameters

##### Electrical data

Voltage	AC/DC	≤	30	V
Current		≤	20	mA

##### Pneumatic data

Supply pressure		≤	6	bar
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##### Thermal data

Temperature class		T4	T5	T6
Ambient temperature range	$-40\text{ °C} \leq T_a \leq 85\text{ °C}$	80 °C	65 °C	

### CONDITIONS OF CERTIFICATION: YES as shown below:

#### Special conditions for safe use

The positioner is designed for use at an ambient temperature range of  $-40\text{ °C}$  up to  $85\text{ °C}$  at maximum.

If the positioner is used at an ambient temperature above  $60\text{ °C}$  or below  $-20\text{ °C}$ , cable entries and cable approved for a service temperature corresponding to the maximum ambient temperature increased by 10 K respectively corresponding to the minimum ambient temperature shall be used.

Variants which, according to separate certification, comply with type of protection intrinsic safety, shall not be used intrinsically safe once they have been used in type of protection flameproof enclosure.