Translation

(1) # EC-TYPE EXAMINATION CERTIFICATE

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

(3) EC-Type Examination Certificate Number

TÜV 04 ATEX 2702 X

(4) Equipment: Positioner type TZIDC

(5) Manufacturer: ABB Automation Products GmbH

(6) Address: Schillerstrasse 72
D-32425 Minden

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

(8) The TÜV NORD CERT GmbH & Co. KG, TÜV CERT-Certification Body, notified body number N° 0032 in accordance with Article 9 of the Council Directive of the EC of March 23, 1994 (94/9/EC), certifies that this equipment or protective system 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 the confidential report N° 04YEX551733.

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

EN 50 014:1997+A1+A2 **EN 50 020:2002** **EN 50281-1-1:1998**

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

(11) This EC-type examination certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment or protective system must include the following:

Ex II 2 G EEx ib IIC T6 resp. II 2 D IP 6X T 46 °C

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Hanover, 2004-12-21

TÜV NORD CERT

Head of the Certification Body

TÜV CERT A4 02.04 5.000 Lö

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(13) **SCHEDULE**

(14) **EC-TYPE EXAMINATION CERTIFICATE N° TÜV 04 ATEX 2702 X**

(15) Description of equipment

The positioner type TZIDC is used for the control resp. closed-loop control of pneumatically driven valves using an impressed current of 4 to 20 mA. An integrated position sensor determines the actual position of the valve drive. An integrated current/pressure transducer (I/P) is used for the control of the pneumatic auxiliary power.

The permissable ambient temperature ranges in dependence of the temperature class resp. enclosure surface temperature have to be taken from the following table:

Temperature class	Ambient temperature range (II G)
T4	- 40 °C to + 85 °C
T5	- 40 °C to + 50 °C
T6	- 40 °C to + 35 °C

Enclosure surface temperature	Ambient temperature range (II D)
T81 °C	- 40 °C to + 70 °C
T61 °C	- 40 °C to + 50 °C
T46 °C	- 40 °C to + 35 °C

Electrical Data

Signal circuit
(Terminal +11, –12)

in the type of protection Intrinsic Safety EEx ib IIC
only for the connection to a certified intrinsically safe circuit
Maximum values:
U_i = 30 V
I_i = 320 mA
P_i = 1.1 W
C_i = 6.6 nF
L_i negligibly small

Switching input
(Terminal +81, –82)

in the type of protection Intrinsic Safety EEx ib IIC
only for the connection to a certified intrinsically safe circuit
Maximum values:
U_i = 30 V
C_i = 3.7 nF
L_i negligibly small

Switching output (Terminal +83, –84)	in the type of protection Intrinsic Safety EEx ib IIC only for the connection to a certified intrinsically safe circuit Maximum values: U_i = 30 V P_i = 500 mW C_i = 3.7 nF L_i negligibly small
Mechanical digital feed back (Terminals Limit1 +51, -52 resp. Limit2 +41, -42)	Maximum values see EC-Type Examination Certificate No. PTB 00 ATEX 2049 X (Slot-type initiators of the company Pepperl & Fuchs)
Cartridge for digital feed back (Terminals +51, -52 resp. +41, -42)	in the type of protection Intrinsic Safety EEx ib IIC only for the connection to a certified intrinsically safe circuit Maximum values: U_i = 30 V P_i = 500 mW C_i = 3.7 nF L_i negligibly small
Plug-In module for analogue feed back (Terminals +31, -32)	in the type of protection Intrinsic Safety EEx ib IIC only for the connection to a certified intrinsically safe circuit Maximum values: U_i = 30 V P_i = 1.1 W C_i = 6.6 nF L_i negligibly small
Plug-In module for shutdown-function (Terminals +51 and –52 resp. +85 and -86)	in the type of protection Intrinsic Safety EEx ib IIC only for the connection to a certified intrinsically safe circuit Maximum values: U_i = 30 V C_i = 3.7 nF L_i negligibly small
Local communication interface (LKS)	for connection to a programmer outside of the explosion hazardous area

(16) Test documents are listed in the test report No.: 04YEX551733.

(17) Special conditions for safe use

The "Local communication interface (LKS)" may only be used outside of the explosion hazardous area.

For use as II 2 D apparatus the equipment may only be used in areas with low risk of mechanical danger.

Cable entries which meets the requirements of EN 50281-1-1:1998 for category 2 D as well as the ambient temperature range have to be used.

(18) Essential Health and Safety Requirements

no additional ones

TÜV NORD

Translation

1. SUPPLEMENT to

EC-TYPE EXAMINATION CERTIFICATE No. TÜV 04 ATEX 2702 X

Equipment:	**Positioner type TZIDC**
Manufacturer:	**ABB Automation Products GmbH**
Address:	**Schillerstrasse 72**
	D-32425 Minden

Amentments:

In the future the positioner type TZIDC may also be manufactured according to the test documents listed in the test report. The modifications refer to the internal construction. With the modifications refer to the internal construction the requirement of the category ia are reached.
The marking of the positioner type TZIDC will be in the future also: II 2 G EEx ia IIC T6.

Electrical Data

Signal circuit (Terminal +11, –12)	in the type of protection Intrinsic Safety EEx ib IIC resp. EEx ia IIC only for the connection to a certified intrinsically safe circuit Maximum values: U_i = 30 V I_i = 320 mA P_i = 1.1 W C_i = 6.6 nF L_i negligibly small
Switching input (Terminal +81, –82)	in the type of protection Intrinsic Safety EEx ib IIC resp. EEx ia IIC only for the connection to a certified intrinsically safe circuit Maximum values: U_i = 30 V C_i = 3.7 nF L_i negligibly small
Switching output (Terminal +83, –84)	in the type of protection Intrinsic Safety EEx ib IIC resp. EEx ia IIC only for the connection to a certified intrinsically safe circuit Maximum values: U_i = 30 V P_i = 500 mW C_i = 3.7 nF L_i negligibly small

BA 02 01.05 1.000.000

1. Supplement to EC-Type Examination Certificate No. TÜV 04 ATEX 2702 X

Mechanical digital feed back (Terminals Limit1 +51, -52 resp. Limit2 +41, -42)	Maximum values see EC-Type Examination Certificate No. PTB 00 ATEX 2049 X (Slot-type initiators of the company Pepperl & Fuchs)
Cartridge for digital feed back (Terminals +51, -52 resp. +41, -42)	in the type of protection Intrinsic Safety EEx ib IIC resp. EEx ia IIC only for the connection to a certified intrinsically safe circuit Maximum values: U_i = 30 V P_i = 500 mW C_i = 3.7 nF L_i negligibly small
Plug-In module for analogue feed back (Terminals +31, -32)	in the type of protection Intrinsic Safety EEx ib IIC resp. EEx ia IIC only for the connection to a certified intrinsically safe circuit Maximum values: U_i = 30 V P_i = 1.1 W C_i = 6.6 nF L_i negligibly small
Plug-In module for shutdown-function (Terminals +51 and –52 resp. +85 and -86)	in the type of protection Intrinsic Safety EEx ib IIC resp. EEx ia IIC only for the connection to a certified intrinsically safe circuit Maximum values: U_i = 30 V C_i = 3.7 nF L_i negligibly small
Local communicationinterface (LKS)	for connection to a programmer outside of the explosion hazardous area

All other data apply unchanged for this Supplement.

The equipment according to EC-Type Examination Certificate TÜV 04 ATEX 2702 X incl. of this 1. supplement also meets the requirements of

EN 50 014:1997+A1+A2 **EN 50 020:2002** **EN 50281-1-1:1998**

(16) The test documents are listed in the test report N° 05 YEX 552236.

(17) Special conditions for safe use

no additional ones

BA 02 01.05 1.000.000

1. Supplement to EC-Type Examination Certificate No. TÜV 04 ATEX 2702 X

(18) Essential Health and Safety Requirements

no additional ones

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Hannover, 2005-06-02

Head of the
Certification Body

BA 02 01.05 1.000.000

Translation

2. SUPPLEMENT

to Certificate No.	**TÜV 04 ATEX 2702 X**
Equipment:	Positioner type TZIDC und TZIDC-200
Manufacturer:	ABB Automation Products GmbH
Address:	Schillerstraße 72 32425 Minden Germany
Order number:	8000553774
Date of issue:	2007-07-16

Amendments:

In the future the positioner type TZIDC may also manufactured according to the test documents listed in the test report. The modifications refer to the internal construction of the item.
Further the type TZIDC is supplemented of the type TZIDC-200.
The marking of the positioner type TZIDC-200 will be: II 2 G EEx ia IIC T6.

The equipment incl. of this supplement meets the requirements of these standards:

Type TZIDC:

EN 50 014:1997+A1+A2 **EN 50 020:2002** **EN 50281-1-1:1998**

Type TZIDC-200:

EN 50 014:1997+A1+A2 **EN 50 020:2002**

The electrical data and all other data apply unchanged for this supplement.

(16) The test documents are listed in the test report No. 07203553774.

(17) Special conditions for safe use

The special conditions will be supplemented of the following point:

Variants, which also comply with the type of protection „Flameproof Enclosure" according to a separate certificate, may not be operated intrinsically safe after use as apparatus in the type of protection „Flameproof Enclosure".

(18) Essential Health and Safety Requirements

no additional ones

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The head of the certification body

i.V. Schwedt

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Translation

3. SUPPLEMENT

to Certificate No.	**TÜV 04 ATEX 2702 X**
Equipment:	Positioner type TZIDC and TZIDC-200
Manufacturer: Address:	ABB Automation Products GmbH Schillerstraße 72 32425 Minden Germany
Order number:	8000354654
Date of issue:	2008-06-24

Amendments:

In future, the positioner type TZIDC and type TZIDC-200 may be manufactured according to the test documents listed in the test report. The modifications refer to the internal construction, the electrical data and the marking of the equipment.

In future, the marking of the positioner will be:

Type TZIDC

⟨Ex⟩ II 2 G Ex ia IIC T6 bzw. II 2 G Ex ib IIC T6 bzw. II 2 D Ex iaD 21 T51 °C

Type TZIDC-200

⟨Ex⟩ II 2 G Ex ia IIC T6 bzw. II 2 G Ex ib IIC T6

The permissible ambient temperature ranges in dependence of the temperature class resp. enclosure surface temperature have to be taken from the following table:

Temperature class	Ambient temperature range (II 2 G)
T4	-40 °C to +85 °C
T5	-40 °C to +50 °C
T6	-40 °C to +40 °C

For use with „Cartridge for digital feed back" in the temperature class T6, the permissible ambient temperature range is -40 °C to +35 °C.

Enclosure surface temperature	Ambient temperature range (II 2 D)
T81 °C	- 40°C to +70 °C
T61 °C	- 40°C to +50 °C
T51 °C	- 40°C to +40 °C

Electrical Data

Signal circuit (Terminal +11, –12)	in the type of protection Intrinsic Safety Ex ib IIC, Ex ia IIC resp. Ex iaD only for the connection to a certified intrinsically safe circuit Maximum values: U_i = 30 V I_i = 320 mA P_i = 1.1 W C_i = 6.6 nF L_i negligibly small
Switching input (Terminal +81, –82)	in the type of protection Intrinsic Safety Ex ib IIC, Ex ia IIC resp. Ex iaD only for the connection to a certified intrinsically safe circuit Maximum values: U_i = 30 V I_i = 320 mA P_i = 1.1 W C_i = 4.2 nF L_i negligibly small
Switching output (Terminal +83, –84)	in the type of protection Intrinsic Safety Ex ib IIC, Ex ia IIC resp. Ex iaD only for the connection to a certified intrinsically safe circuit Maximum values: U_i = 30 V I_i = 320 mA P_i = 500 mW C_i = 4.2 nF L_i negligibly small
Mechanical digital feed back (Terminals Limit1 +51, -52 resp. Limit2 +41, -42)	Maximum values see EC-Type Examination Certificate No. PTB 00 ATEX 2049 X (Slot-type initiators of the company Pepperl & Fuchs)
Cartridge for digital feed back (Terminals +51, -52 resp. +41, -42)	in the type of protection Intrinsic Safety Ex ib IIC, Ex ia IIC resp. Ex iaD only for the connection to a certified intrinsically safe circuit Maximum values: U_i = 30 V I_i = 320 mA P_i = 500 mW C_i = 3.7 nF L_i negligibly small

Plug-In module for analogue feed back (Terminals +31, -32)	in the type of protection Intrinsic Safety Ex ib IIC, Ex ia IIC resp. Ex iaD only for the connection to a certified intrinsically safe circuit Maximum values: U_i = 30 V I_i = 320 mA P_i = 1.1 W C_i = 6.6 nF L_i negligibly small
Plug-In module for shutdown-function (Terminals +51 and –52 resp. +85 and -86)	in the type of protection Intrinsic Safety Ex ib IIC, Ex ia IIC resp. Ex iaD only for the connection to a certified intrinsically safe circuit Maximum values: U_i = 30 V I_i = 320 mA P_i = 1.1W C_i = 3.7 nF L_i negligibly small
Local communication interface (LKS)	for connection to a programmer outside of the explosion hazardous area only

All other data apply unchanged for this supplement.

The equipment incl. of this supplement meets also the requirements of these standards:

Type TZIDC:

EN 60079-0:2006 **EN 60079-11:2007** **EN 61241-0:2006** **EN 61241-11:2006**

Type TZIDC-200:

EN 60079-0:2006 **EN 60079-11:2007**

(16) The test documents are listed in the test report No. 08 203 354654.

(17) Special conditions for safe use

Special conditions will be in the future:

The "Local communication interface (LKS)" may only be used outside of the explosion hazardous area with $U_m \leq 30$ V DC.

For use as II 2 D apparatus the equipment may only be used in areas with low risk of mechanical danger.

Cable entries which meet the requirements of EN 61241-11 for category II 2 D as well as the ambient temperature range have to be used.

Variants, which also comply with the type of protection „Flameproof Enclosure" according to a separate certificate, may not be operated in the type of protection "Intrinsically Safe" after use as apparatus in the type of protection „Flameproof Enclosure".

(18) Essential Health and Safety Requirements

no additional ones

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The head of the certification body

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Translation

4. S U P P L E M E N T

to Certificate No.	**TÜV 04 ATEX 2702 X**
Equipment:	Positioner type TZIDC and TZIDC-200
Manufacturer: Address:	ABB Automation Products GmbH Schillerstraße 72 32425 Minden Germany
Order number:	8000365538
Date of issue:	2008-11-13

Amendments:

In future, the positioner type TZIDC and type TZIDC-200 may be manufactured according to the test documents listed in the test report. The modifications refer to the internal construction of the equipment.

The "electrical data", the "special conditions for safe use" and all other data apply unchanged for this supplement.

The equipment incl. of this supplement meets also the requirements of these standards:

type TZIDC:

EN 60079-0:2006 **EN 60079-11:2007** **EN 61241-0:2006** **EN 61241-11:2006**

type TZIDC-200:

EN 60079-0:2006 **EN 60079-11:2007**

(16) The test documents are listed in the test report No. 08 203 365538.

(17) Special conditions for safe use

no additional ones

(18) Essential Health and Safety Requirements

no additional ones

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Translation

5. SUPPLEMENT

to Certificate No.	**TÜV 04 ATEX 2702 X**
Equipment:	Positioner type TZIDC and TZIDC-200
Manufacturer:	ABB Automation Products GmbH
Address:	Schillerstraße 72 32425 Minden Germany
Order number:	8000386302
Date of issue:	2010-08-25

Amendments:

In future, the positioner type TZIDC may be manufactured according to the test documents listed in the test report.

In the future the positioner type TZIDC may also be operated as a source of auxiliary energy with gases of the group IIA and the temperature class T1.

The "special conditions for safe use" are accordingly supplemented.

The "electrical data" and all other data apply unchanged for this supplement.

The equipment incl. of this supplement meets also the requirements of these standards:

type TZIDC:

EN 60079-0:2006 **EN 60079-11:2007** **EN 61241-0:2006** **EN 61241-11:2006**

type TZIDC-200:

EN 60079-0:2006 **EN 60079-11:2007**

(16) The test documents are listed in the test report No. 10 203 386302.

(17) Special conditions for safe use

Additional „Special conditions for safe use" for the positioner type TZIDC:

The positioner type TZIDC may only be operated as a source of auxiliary energy with gases of the group IIA and the temperature class T1 in outdoor applications or inside of buildings with sufficient ventilation.

The fed gas must be free of air and oxygen insofar as no explosive atmosphere can occur.

The exhaust gas must always be lead out.

(18) Essential Health and Safety Requirements

no additional ones

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, accredited by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

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Translation

6. SUPPLEMENT

to Certificate No.	**TÜV 04 ATEX 2702 X**
Equipment:	Positioner type TZIDC and TZIDC-200
Manufacturer:	ABB Automation Products GmbH
Address:	Schillerstraße 72 32425 Minden Germany
Order number:	8000413410
Date of issue:	2012-10-04

Amendments:

In future, the positioner type TZIDC and type TZIDC-200 may be manufactured according to the test documents listed in the test report. The modifications refer to an extension of the IP Electronic by a SMD variant, an optionally Remote Sensor, the "Electrical data", the marking and the "Special conditions for safe use" of the equipment.
Furthermore the equipment was evaluated according to the newest standards.

Electrical data

Optionally interface to the Remote Sensor

Remote sensor (terminal X2-2: $+U_{ref}$, X3-2: GND) in type of protection "Intrinsic Safety" Ex ib IIC/IIB resp. Ex ia IIC/IIB

Maximum values:
U_o = 5.4 V
I_o = 74 mA
P_o = 100 mW
Characteristic line: linear
C_i negligibly small
L_i negligibly small

Protection	Ex ia resp. Ex ib	
	IIC	IIB
L_o	5 mH	5 mH
C_o	2 µF	10 µF

In future, the marking of the positioner will be:

Type TZIDC

II 2G Ex ia IIC T6 resp. T4 Gb or
II 2G Ex ib IIC T6 resp. T4 Gb or
II 2D Ex ia IIIC T51°C resp. T81°C Db

Type TZIDC-200

II 2G Ex ia IIC T6 resp. T4 Gb or
II 2G Ex ib IIC T6 resp. T4 Gb

All other data apply unchanged for this supplement.

The equipment incl. of this supplement meets also the requirements of these standards:

Type TZIDC resp. TZIDC-200:

EN 60079-0:2009 **EN 60079-11:2012**

(16) The test documents are listed in the test report No. 12 203 109653.

(17) Special conditions for safe use

Special conditions will be in the future:

The "Local communication interface (LKS)" may only be used outside of the explosion hazardous area with $U_m \leq 30$ V DC.

Additional „Special conditions for safe use" for the positioner type TZIDC-200:

Variants, which also comply with the type of protection „Flameproof Enclosure" according to a separate certificate, may not be operated in the type of protection "Intrinsically Safe" after use as apparatus in the type of protection „Flameproof Enclosure".

Additional „Special conditions for safe use" for the positioner type TZIDC:

The positioner type TZIDC may only be operated as a source of auxiliary energy with gases of the group IIA and the temperature class T1 in outdoor applications or inside of buildings with sufficient ventilation.

The fed gas must be free of air and oxygen insofar as no explosive atmosphere can occur.

The exhaust gas must always led outwards.

For use as II 2D apparatus the equipment may only be used in areas with low risk of mechanical danger.

Cable entries which meet the requirements of EN 60079-11 for category II 2D as well as the ambient temperature range have to be used.

With use in combustible dust an electrostatic charge due to propagating brush discharges has to be avoided.

(18) Essential Health and Safety Requirements

no additional ones

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The head of the notified body

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Translation

7. SUPPLEMENT

to Certificate No.	**TÜV 04 ATEX 2702 X**
Equipment:	Stellungsregler Typ TZIDC-xxx
Manufacturer: Address:	ABB Automation Products GmbH Schillerstraße 72 32425 Minden Germany
Order number:	8000452669
Date of issue:	2016-02-11

Amendments:

In the future the Positioner typ TZIDC-xxx may also be manufactured according to the test documents listed in the ATEX Assessment Report.

The amendments relate to the internal construction, the labeling, the "Electrical data" as well as the permissible ambient temperature range of the device.

Permissible ambient temperature range according to following table:

Type und marking	**TZIDC, TZIDC-110/-120, TZIDC-200/-210/-220**	
	Ex ia IIC resp. Ex ib IIC	Ex ia IIIC resp. Ex ib IIIC
Temperature class	Ambient temperature range	Temperature marking
T4	-40 °C to +85 °C	T 125°C
T6	-40 °C to +40 °C	T 85°C

The electrical data have been changed as follows:

Plug-In module for digital feedback (terminals +51, -52 resp. +41, -42)

in type of protection "Intrinsic Safety" Ex ia IIC resp. Ex ib IIC only for the connection to a certified intrinsically safe circuit with the following maximum values:

U_i = 30 V
I_i = 320 mA
P_i = 250 mW
C_i = 3.7 nF
L_i negligibly small

The device including this supplement meets the requirements of the following standards:

EN 60079-0:2012+A11:2013 EN 60079-11:2012

The device will then be labeled as follows:

II 2 G Ex ia IIC T6 resp. T4 Gb or
II 2 G Ex ib IIC T6 resp. T4 Gb or
II 2 D Ex ia IIIC T85 °C resp. T125 °C Db or
II 2 D Ex ib IIIC T85 °C resp. T125 °C Db

All other data apply unchanged for this supplement.

(16) Test documents are listed in the ATEX test report No. 16 203 168751.

(17) Special conditions for safe use

no further

(18) Essential Health and Safety Requirements

no additional ones

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