



(1) **CONFORMITY STATEMENT**
(Translation)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**

(3) Test Certificate Number:

ZELM 01 ATEX 3059

(4) Equipment: **Pressure and Differential Pressure - Transducer Type MV 20.0 T.**

(5) Manufacturer: **ABB Automation Products GmbH**

(6) Address: **Schillerstrasse 72, D-32425 Minden**

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

(8) The Prüf- und Zertifizierungsstelle ZELM Ex, notified body No. 0820 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment 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 ZELM Ex 0090112078.

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

IEC 60 079-0: 1998

IEC 60 079 - 15:2001

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

(11) This Conformity Statement relates only to the design and construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

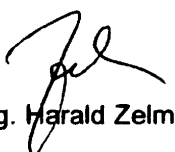
(12) The marking of the equipment shall include the following:



II 3 G EEx nL IIC T6

Zertifizierungsstelle ZELM Ex

Braunschweig, March 19, 2001


Dipl.-Ing. Harald Zelm





SCHEDULE

(13)

(14) **Conformity Statement ZELM 01 ATEX 3059**

(15) Description of equipment

In the hazardous area the Pressure, Differential Pressure Transducer is used for measurement and conversion of the physical quantities pressure above atmospheric, differential pressure and absolute pressure into an analogous electrical standard signal of a 4 ... 20 mA current loop and digital communication according to the HART protocol.

The Pressure, Differential Pressure Transducer is allowed to be installed into the hazardous area of category 3G.

Maximum permissible ambient temperatures depending on the temperature class are shown in the following table:

Ambient temperature	Temperature class
-40 °C to +85 °C	T 4
-40 °C to +40 °C	T 5 and T6

Electrical data

Supply and signal circuit with the following nominal values:
(terminals signal +,-)

$$U \leq 55 \text{ V}$$
$$I \leq 22,5 \text{ mA}$$

Connector for external passive temperature sensor :
supply (terminals 12 and 14) and signal circuit (terminals 11 and 13)

$$U \leq 10,5 \text{ V}$$
$$I \leq 1,5 \text{ mA}$$
$$P \leq 4 \text{ mW}$$

(16) Report No. ZELM Ex 0090112078 including description, drawings and parts lists (19 pages)

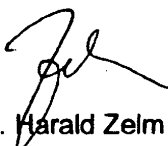
(17) Special conditions for safe use

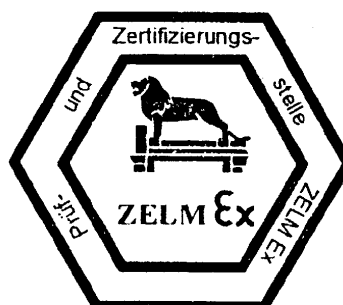
not applicable

(18) Essential Health and Safety Requirements

The tests carried out and their positive results show that the Pressure, Differential Pressure Transducer type MV 20.0 T. meets the requirements of the Directive 94/9/EC and of the standards stated on the cover sheet.

Zertifizierungsstelle ZELM Ex


Dipl.-Ing. Harald Zelm



Braunschweig, March 19, 2001

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Prüf- und Zertifizierungsstelle

ZELM Ex



1. Supplement

(Supplement according to EC-Directive 94/9 Annex III letter 6)

to Conformity Statement

ZELM 01 ATEX 3059

(Translation)

Equipment: **Pressure and Differential Pressure - Transducer
type 20.0T. HART**

Manufacturer: **ABB Automation Products GmbH**

Address: **Schillerstrasse 72, D-32425 Minden**

Description of supplement

Some additional non-safety relevant components and alternatively applicable components have been fixed, changed or omitted for the Pressure, Differential Pressure Transducer type 20.0T. HART.

The model code may also be in future:

type 26... Hart.

Instead of the points of the model code other letter- or numeral- combinations will be stated, which are describing several variations and versions of the equipment.

The type of protection will be in future:

II 3 GD T 50°C EEx nL IIC T6 resp. II 3 GD T 95°C EEx nL IIC T4

The electrical data will be in future:

Supply and signal circuit with the following nominal values:
(terminals signal +,-)

$$U \leq 55 \text{ V}$$
$$I \leq 22,5 \text{ mA}$$

Connector for external passive temperature sensor :

supply (terminals 12 and 14) and
signal circuit (terminals 11 and 13)

$$U \leq 10,6 \text{ V}$$
$$I \leq 1,5 \text{ mA}$$
$$P \leq 4 \text{ mW}$$

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EC-type-examination Certificates without signature and stamp are not valid. The certificates may only be circulated without alteration. Extracts or alterations are subject to approval by the Prüf- und Zertifizierungsstelle ZELM Ex. In the case of dispute, the German text shall prevail.



Prüf- und Zertifizierungsstelle

ZELM Ex



1. Supplement of the Conformity Statement ZELM 01 ATEX 3059

Further electrical data of the different versions and the ambient temperature range remain unchanged.
The Pressure, Differential Pressure Transducer may be manufactured in future in accordance with this supplement.

References:

The instruction manual has to be observed.

For the use in dust atmosphere the degree of protection \geq IP 65 must be ensured in regard to the enclosure and the cable entry fitting.

The device is only intended for metering of incombustible or inflammable gases which are not explosive.

Report No.

ZELM Ex 0070212109

Special conditions for safe use

not applicable

Essential Health and Safety Requirements

met by adherence to the standards

IEC 60 079 - 0:1998


IEC 60 079 - 15:2001

EN 50 281-1-1:1998

Zertifizierungsstelle ZELM Ex



Braunschweig, March 12, 2002


Dipl.-Ing. Harald Zelm

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Prüf- und Zertifizierungsstelle

ZELM Ex



2. Supplement

(Supplement according to EC-Directive 94/9 Annex III letter 6)

to Conformity Statement

ZELM 01 ATEX 3059

Equipment: **Pressure and Differential Pressure - Transducer
type 20.0T.HART**

Manufacturer: **ABB Automation Products GmbH**

Address: **D-32425 Minden**

Description of supplement

The 2. Supplement to Conformity Statement concerns in particular the inner construction without essential changes of the printed circuit board layout.

The technical data, the marking and the references mentioned in the Conformity Statement remain unchanged.

Report No.

ZELM Ex 1540612533

Special conditions for safe use

not applicable

Essential Health and Safety Requirements

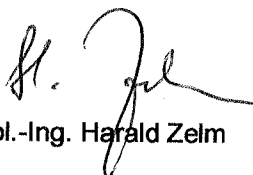
The essential health and safety requirements are fulfilled further on by adherence to the standards:

EN 60079-0:1998

EN 60079-15:2001

EN 50281-1-1:1998

Zertifizierungsstelle ZELM Ex


Dipl.-Ing. Harald Zelm



Braunschweig, June 20, 2007

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