



(1) **EC TYPE-EXAMINATION CERTIFICATE**

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



(3) EC-Type Examination Certificate Number

TÜV 04 ATEX 2432 X

(4) Equipment: Pressure transmitter type PTMEx....01. S 006. A.

(5) Manufacturer: ARMATURENBAU GmbH

(6) Address: Manometerstr. 5
D-46487 Wesel-Ginderich

(7) This equipment or protective system and any acceptable variation thereto is 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° 04YEX551240.

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

EN 50014: 1997+A1+A2 EN 50020: 2002

(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:

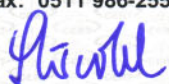
 II 2 G EEx ib IIC T6

TÜV NORD CERT GmbH & Co. KG
TÜV CERT-Certification Body
Am TÜV 1
D-30519 Hannover
Tel.: 0511 986-1470
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Hanover, 2004-02-24



TÜV NORD CERT


Head of the
Certification Body

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Excerpts or changes shall be allowed by the TÜV NORD CERT GmbH & Co. KG



SCHEDULE

(13)

(14) **EC-TYPE EXAMINATION CERTIFICATE N° TÜV 04 ATEX 2432 X**

(15) Description of equipment

The pressure transmitter type PTMEx....01. S 006. A. is used for the detection of pressures in explosion hazardous areas, where apparatus of category 2 are required.

The ambient temperature range is $-40^{\circ}\text{C} \dots +70^{\circ}\text{C}$.

The temperature class of the pressure transmitter in dependence of the type designation has to be taken from the following table:

Type designation	Temperature class
PTMEx....011 S 0061.	T4
PTMEx....011 S 0063.	T5
PTMEx....011 S 0065.	T6

Electrical data

Signal circuit in type of protection Intrinsic Safety EEx ib IIC
(Terminals + and -) only for connection to a certified intrinsically safe circuit
with the following maximum values:

$$U_i = 30 \text{ V}$$

$$I_i = 150 \text{ mA}$$

$$P_i = 1 \text{ W}$$

effective internal inductivity: 33 μH
effective internal capacity: 49 nF

(16) The test documents are listed in the test report no. 04YEX551240.

(17) Special conditions for safe use

1. Since the intrinsically safe signal circuit is connected with earth potential for safety reasons, potential equalisation has to exist in the complete course of the erection of the intrinsically safe circuit.
2. At a cable length above 50m the intrinsically safe circuit has to be safe galvanically separated from all not intrinsically safe circuits.

(18) Essential Health and Safety Requirements

no additional ones

Translation

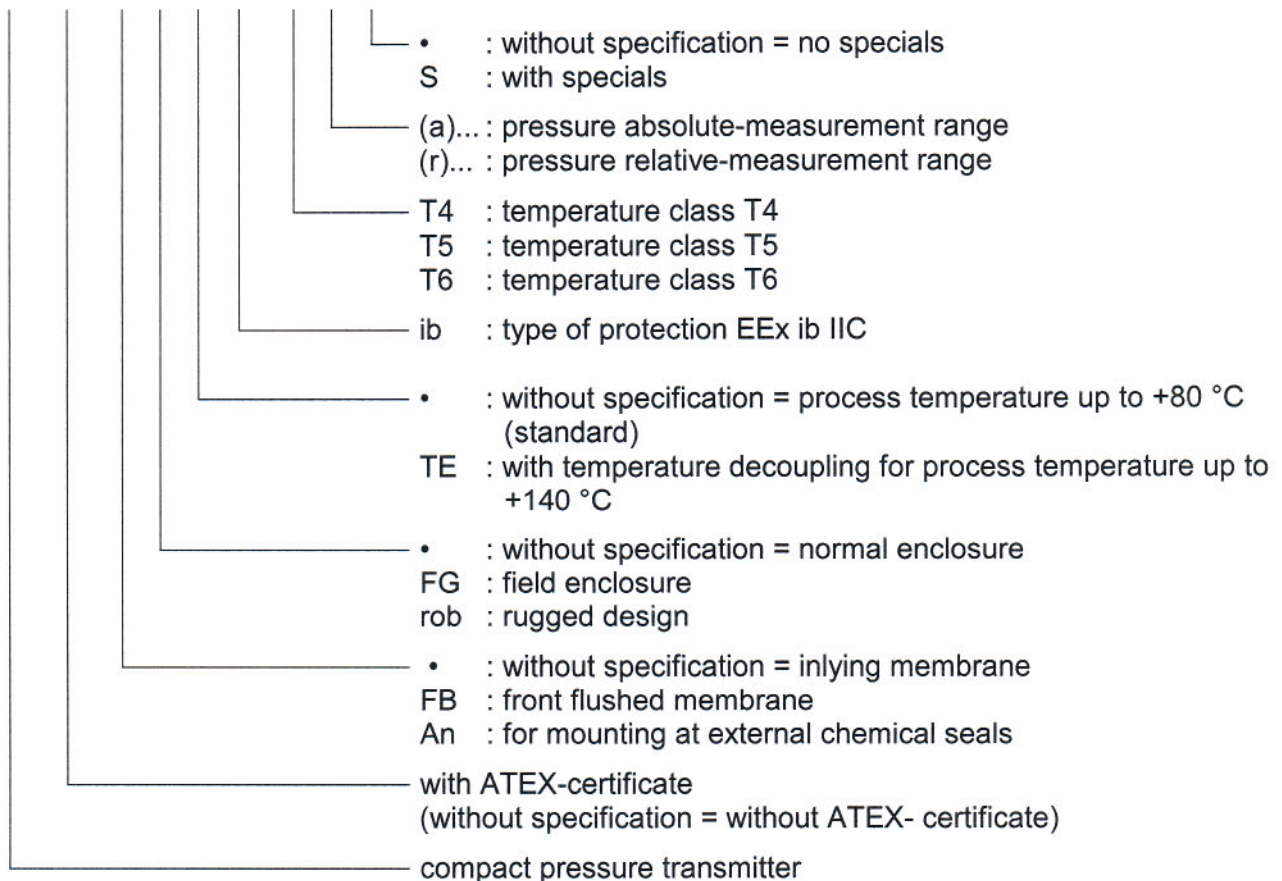
1. SUPPLEMENT to

EC TYPE-EXAMINATION CERTIFICATE No. TÜV 04 ATEX 2432 X

of the company: ARMATURENBAU GmbH
 Manometerstr. 5
 D-46487 Wesel-Ginderich

In the future, the pressure transmitter type PTMEx... .. may also be identified according to following type code. There are no other changes.

PTM Ex



All other data and the “Special conditions for safe use” remain unchanged for this 1st supplement.

(16) Test documents are listed in the test report N° 04 YEX 551563.



- (17) Special conditions for safe use
no additional ones

- (18) Essential Health and Safety Requirements
no additional ones

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Hannover, 2004-06-24

A handwritten signature in blue ink, appearing to read 'G. W. W. W.' or similar, written in a cursive style.

Head of the
Certification Body