



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 TUN 04.0008X

Issue No.: 1

Certificate history:

Issue No. 1 (2011-6-27)

Issue No. 0 (2004-2-23)

Status:

Current

Date of Issue:

2011-06-27

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Applicant:

LABOM Mess- und Regeltechnik GmbH
Im Gewerbepark 13
27798 Hude
Germany

Electrical Apparatus:

Pressure transmitter type Universal C0*1**

Optional accessory:

Type of Protection:

Intrinsic safety

Marking:

Ex ia IIC T4/T5/T6 Ga/Gb
Ex ia IIC T4/T5/T6 Gb
Ex ia I Ma

Approved for issue on behalf of the IECEx
Certification Body:

Karl-Heinz Schwedt

Position:

Head of IECExCB

Signature:
(for printed version)

Date:

2011-06-27

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

Certificate issued by:

TÜV NORD CERT GmbH
Hanover Office
Am TÜV 1
30519 Hannover
Germany





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Manufacturer: **LABOM Mess- und Regeltechnik GmbH**
Im Gewerbepark 13
27798 Hude
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 : 2007-10 Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-11 : 2006 Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26 : 2006 Edition: 2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

*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

IECEx ATR:
DE/TUN/ExTR11.0020/00

File Reference:
11 217 077952

DE/TUN/QAR06.0014/01



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

See annexe for changes regarding issue 1.

CONDITIONS OF CERTIFICATION: YES as shown below:

See annexe for conditions of certification



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

See annexe

IECEx TR:	File reference:
DE/TUN/ExTR11.0020/00	11 217 077952
IECEx QAR:	
DE/TUN/QAR/06.0014/01	

In future, the pressure transmitter type Universal C**0*1 is manufactured according to the documents listed in the test report.

The changes refer to the internal construction, the special conditions for safe use and the marking. This reads as follows:

Ex ia IIC T4/T5/T6 Ga/Gb

Ex ia IIC T4/T5/T6 Gb

Ex ia I Ma

The maximum permissible ambient temperature at the housing T_a and the maximum permissible medium temperature at the pressure port T_M have to be taken from the following tables:

Pressure transmitter with marking Ex ia IIC T4/T5/T6 Ga/Gb

T_a [°C]	T_M [°C]	Temperature class
70°C	40°C	T6
70°C	60°C	T5
70°C	60°C	T4

Pressure transmitter with marking Ex ia I Ma

T_a [°C]	T_M [°C]
70°C	70°C

Special conditions for safe use:

1. The pressure port of the pressure transmitter type Universal C**0*1 is allowed to be operated in an explosion hazardous area, which requires apparatus for zone 0 only if atmospheric conditions exist (Temperature from -20°C to 60°C, pressure from 0.8 bar to 1.1 bar).

If the explosion hazardous atmosphere at the pressure port does not require apparatus for zone 0, the maximum permissible ambient temperatures at the pressure port t_M and the temperature class have to be taken from the following table:

Pressure transmitter with marking Ex ia IIC T4/T5/T6 Gb

T_a [°C]	T_M [°C]	Temperature class
70°C	55°C	T6
70°C	70°C	T5
70°C	70°C	T4

The permissible operating pressures have to be taken from the manufacturers data (manual) if no explosion hazardous gas mixtures exist.

**TÜV NORD CERT GmbH
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IECEx Certification Body



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Attachment to IECEx TUN 04.0008X Issue 1**

2. Since the intrinsically safe circuits are connected with the earth potential for safety reasons, potential equalization has to exist in the complete course of the erection of the intrinsically safe circuits.

All other data apply unchanged for this supplement.