



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX DEK 18.0067X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2020-03-31)

Status: **Current** Issue No: 1

Date of Issue: 2021-06-02

Applicant: **Baumer A/S**
Runetofte 19
8210 Aarhus
Denmark

Equipment: **Universal Temperature Transmitter Flex Top model 2212 and model 2222**

Optional accessory:

Type of Protection: **Ex ia, Ex nA, Ex ec**

Marking: Ex ia IIC T6 ... T4 Ga
Ex nA IIC T6 ... T5 Gc
Ex ec IIC T6 ... T5 Gc

Approved for issue on behalf of the IECEx
Certification Body:

R. Schuller

Position:

Certification Manager

Signature:
(for printed version)

Date:

2021-06-02

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 www.iecex.com or use of this QR Code.



Certificate issued by:

DEKRA Certification B.V.
Meander 1051
6825 MJ Arnhem
Netherlands





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Manufacturer: **Baumer A/S**
Runetofte 19
8210 Aarhus
Denmark

Additional
manufacturing
locations:

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-15:2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:4

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with 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:

[NL/DEK/ExTR18.0068/01](#)

Quality Assessment Report:

[DE/TUN/QAR13.0001/02](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description

Universal temperature transmitter Flex Top model 2212 and model 2222, is used to convert the signal of a sensor into a 4 ... 20 mA current signal with digital communication. The sensor inputs can optionally be configured for resistance thermometers, thermocouples, resistance sensors and voltage signals.

The Model 2222 offers additional HART communication.

The micro-USB connector can be used for programming in the safe area.

The relation between ambient temperature range and temperature class is as follows:

Temp. class	In type of protection Ex ia	In type of protection Ex nA, Ex ec
T6	Ta: -40 °C to +56 °C	Ta: -40 °C to +31 °C
T5	Ta: -40 °C to +71 °C	Ta: -40 °C to +80 °C
T4	Ta: -40 °C to +80 °C	

Nomenclature

2212-xxx2.x (Ex ia version)
2222-xxx2.x (Ex ia version)
2212-xxx3.x (Ex nA version)
2222-xxx3.x (Ex nA version)
2212-xxx4.x (Ex ec version)
2222-xxx4.x (Ex ec version)

Electrical data

In type of protection Ex ia

Supply / output circuit (terminals 1 and 2):

in type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit, with the following maximum values:

$U_i = 30 \text{ V}$; $I_i = 95 \text{ mA}$; $P_i = 750 \text{ mW}$; $C_i = 11 \text{ nF}$; $L_i = 24 \text{ }\mu\text{H}$

Sensor circuit (terminals 3, 4, 5 and 6):

in type of protection intrinsic safety Ex ia IIC, with the following maximum values:

$U_o = 10.5 \text{ V}$; $I_o = 19 \text{ mA}$; $P_o = 55 \text{ mW}$; $C_o = 2 \text{ }\mu\text{F}$; $L_o = 94 \text{ mH}$.

USB connector (used only in non-hazardous area): $U_m = 5.2 \text{ V}$

The sensor circuit is infallibly isolated from the supply / output circuit.

In type of protection Ex nA and Ex ec

Supply circuit (terminals 1 and 2): $U_n = 30 \text{ Vdc}$, $I_n = 20 \text{ mA}$ maximum

Sensor circuit (terminals 3, 4, 5 and 6): $U_{out} = 2.3 \text{ Vdc}$, $I_{out} = 0.2 \text{ mA}$

SPECIFIC CONDITIONS OF USE: YES as shown below:

For ambient temperature range see above.

If the enclosure is made of non-metallic materials, or if it is made of metal having a paint layer thicker than 0.2 mm, electrostatic charges shall be avoided.

The transmitter shall be mounted in a enclosure that provides a degree of protection of at least IP54 according to IEC 60079-0, and that is suitable for the application and correctly installed.

In type of protection Ex ia

If the enclosure is made of aluminum, it must be installed such that ignition sources due to impact and friction sparks are excluded.

In type of protection Ex nA and Ex ec

The area inside the enclosure shall be pollution degree 2 or better, as defined in IEC 60664-1.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Minor constructional changes