

CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **DEKRA 18ATEX0110 X** Issue Number: **1**

(4) Product: **Universal Temperature Transmitter Flex Top model 2212 and model 2222**

(5) Manufacturer: **Baumer A/S**

(6) Address: **Runetofte 19, 8210 Aarhus, Denmark**

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

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential test report number NL/DEK/ExTR18.0068/01.

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

EN IEC 60079-0 : 2018

EN 60079-11 : 2012

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

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



II 1 G Ex ia IIC T6 ... T4 Ga

Date of certification: 2 June 2021

DEKRA Certification B.V.

R. Schuller
Certification Manager

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(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 18ATEX0110 X**

Issue No. 1

(15) **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 DFON (6-pin) connector is used for connection to a dedicated Baumer DFON display (TUV 13ATEX 113124X).

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	without DFON display	with DFON display
T6	Ta: -40 °C to +56 °C	Not allowed
T5	Ta: -40 °C to +71 °C	Ta: -20 °C to +60 °C
T4	Ta: -40 °C to +80 °C	Ta: -20 °C to +60 °C

Nomenclature

2212-xxx2.x (Ex ia version)

2222-xxx2.x (Ex ia version)

Electrical data

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:

$U_i = 30 \text{ V}$; $I_i = 95 \text{ mA}$; $P_i = 750 \text{ mW}$;

$C_i = 11 \text{ nF}$ (26 nF with DFON display)

$L_i = 24 \text{ }\mu\text{H}$ (34 μH with DFON display)

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.

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 18ATEX0110 X**

Issue No. 1

(16) **Report Number**

No. NL/DEK/ExTR18.0068/01.

(17) **Specific conditions of use**

For ambient temperature range see (15).

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

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.

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

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR18.0068/01.

(20) **Certificate history**

Issue 0 - 223134900	initial certificate
Issue 1 - 225575400	minor constructional changes