

Translation


(1) **EC-Type-Examination Certificate**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 94/9/EC**



- (3) **Certificate Number**                      **TÜV 13 ATEX 113124 X**
- (4) for the equipment:                      Grafic Display model: CombiView DFON 5xxxxxx
- (5) of the manufacturer:                      Baumer A/S
- (6) Address:                                      Runetoften 19, 8210 Aarhus V, Denmark
- Order number:                                8000 415889
- Date of issue:                                 2013-11-08

- (7) The design of this equipment or protective system and any acceptable variation thereto are specified in the schedule to this EC-Type-Examination Certificate and the documents therein referred to.
- (8) The TÜV NORD CERT GmbH, notified body No. 0044 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 No. 12 203 113124.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN 60079-0:2012                      EN 60079-11:2012                      EN 60079-26:2007**
- (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 1 G Ex ia IIC T5 Ga**    or    **II 1 D Ex ia IIIC T100°C Da**

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, notified by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The head of the notified body



Meyer

Hanover office, Am TÜV 1, 30519 Hannover, Fon +49 (0)511 986 1455, Fax +49 (0)511 986 1590

(13) **SCHEDULE**

(14) **EC-Type-Examination Certificate No. TÜV 13 ATEX 113124 X**

(15) Description of equipment

The CombiView is a display intended for displaying data from several types of transmitters. It has a touch sensitive screen for interaction with the user. It receives data and power from either 4 – 20 mA loop, or direct communication with the transmitter. The PCB is mounted in a circular molded plastic housing. It is designed to fit in a  $\varnothing 80$  housing. Input and power is either provided through 2 wires in a 4 – 20 mA current loop, or through the communications cable to the attached transmitter.

The CombiView DFON must be supplied through a zener barrier to make the display intrinsically safe. The transmitter may be placed inside or outside the hazardous area as preferred. If relay option is enabled, each relay connection must be intrinsically safe secured by zener barriers.

**Type key:**

CombiView DFON is a an intrinsically safe graphical display with backlight.

Model nomenclature:

<b>DFON</b>	<b>5</b>	<b>X2</b>	<b>X3</b>	<b>X4</b>	<b>X5</b>	<b>X6</b>	<b>X7</b>
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Safety: X1 = 5  $\Rightarrow$  ATEX "ia" version Gas and Dust  
 Relays: X2  
 Configuration: X3  
 Front ring: X4  
 Housing: X5  
 Electrical connection on housing: X6  
 Accessories, Software for relays: X7

**Technical data:**

Only for connection to a certified intrinsically safe circuit Ex ia IIC:

U<sub>i</sub>: 30 V DC  
 I<sub>i</sub>: 100 mA  
 P<sub>i</sub>: 0.75 W  
 C<sub>i</sub>: 15 nF  
 L<sub>i</sub>: 10  $\mu$ H

**Relay output**

Only for connection to a certified intrinsically safe circuit Ex ia IIC:

U<sub>i</sub>: 30 V DC  
 I<sub>i</sub>: 75 mA  
 P<sub>i</sub>: 0.75 W  
 C<sub>i</sub>: 10 nF  
 L<sub>i</sub>: 10  $\mu$ H

on each relay output.

Permissible range of ambient temperature:

For use in zone 0: -20 °C to +60 °C  
 For use in other zones: -40 °C to +65 °C

(16) Test documents are listed in the test report No. 13 203 113124

Schedule EC-Type Examination Certificate No. TÜV 13 ATEX 113124 X

(17) Special conditions for safe use

1. This product is allowed to be operated in an explosion hazardous atmosphere of zone 0 only if atmospheric conditions exist (Temperature from -20°C to 60°C, pressure from 0,8 bar to 1,1 bar). Under other than atmospheric conditions, the certificate may be used as a guide.
2. Impact test of the display is done to EN 60 079-0, with low impact energy of 2J.  
The housing, connectors and cable glands are impact tested with the low energy of 4J.
3. This product contains no replaceable parts. In case of malfunction the product must be shipped to Baumer for repair.
4. Use of FlexProgrammer 9701 is only allowed in the safe area.

(18) Essential Health and Safety Requirements

no additional ones