Translation

(1) EU-Type Examination Certificate

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

(3) **Certificate Number** **TÜV 19 ATEX 249098** **issue:** 00

(4) for the product: Grounding Control Device type EKX-FIBC

(5) of the manufacturer: **Timm Elektronik GmbH**

(6) Address: Humboldtstr. 29
21509 Glinde
Germany

Order number: 8003008099
Date of issue: 2019-11-11

(7) The design of this product and any acceptable variation thereto are specified in the schedule to this EU-Type Examination Certificate and the documents therein referred to.

(8) The TÜV NORD CERT GmbH, Notified Body No. 0044, in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and the Council of 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 the confidential ATEX Assessment Report No. 19 203 249098.

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

EN IEC 60079-0:2018 **EN 60079-5:2015** **EN 60079-7:2015**
EN 60079-11:2012 **EN 60079-31:2014**

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 for 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 equipment. These are not covered by this certificate.

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

II 2 G Ex eb ib q IIB T4 Gb
II 2 D Ex ib tb IIIC T80 °C Db

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

Roder

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(13) **S C H E D U L E**

(14) **EU-Type Examination Certificate No. TÜV 19 ATEX 249098 issue 00**

(15) Description of product
The Grounding Control Device type EKX-FIBC together with the connected grounding cable, with the MBX module and the two-grounding clamps, is used to create and monitor the electrostatic earthing of conductive containers (e.g. FIBC type C) during transfer or loading operations with products that may form explosive vapours or dust atmospheres.

Type code
EKX-FIBC

Electrical data

Power supply (Terminals L and N)	In type of protection increased safety Ex eb U_m = 230 V ±10% 50-60 Hz; P ca. 10 VA
PA (Terminal PE)	For the connection to equipotential bonding
Permissive outputs (Terminals 1 and 2 resp. 3 and 4)	In type of protection increased safety Ex eb 2 isolated NO contacts, internally monitored Switching power: U_m = 250 V a.c; I = 3 A; P ca 100 VA
Controlling output (Terminals 5, 6 and 7)	In type of protection increased safety Ex eb 1 isolated two-way contact, not monitored Switching power: U_m = 250 V a.c; I = 3 A; P ca 100 VA
Data bus (Terminals 8, 9, 10 and 11)	In type of protection intrinsic safety Ex ib IIB resp. Ex ib IIIC Only for the connection to certified intrinsically safe circuits Maximum values: U_i = 15 V I_i = 175 mA P_i = 2.6 W The effective internal capacitance C_i is negligibly small. The effective internal inductance L_i is negligibly small.
NAMUR- signal output (Terminals 12, 13, 14 and 15)	In type of protection intrinsic safety Ex ib IIB resp. Ex ib IIIC Only for the connection to certified intrinsically safe circuits Maximum values: U_i = 20 V I_i = 20 mA P_i = 400 mW The effective internal capacitance C_i is negligibly small. The effective internal inductance L_i is negligibly small.

The internal measuring circuit (Plug X8) is in the type of protection ignition protection intrinsic safety Ex ib IIB resp. Ex ib IIIC and can only be connected with the measuring cables, the module MBX and two grounding clamps type BU-111-0 (Mueller).

Thermal data
The ambient temperature range is -30 °C $\leq T_a \leq$ +60 °C

(16) Drawings and documents are listed in the ATEX Assessment Report No. 19 203 249098

(17) Specific Conditions for Use
None

(18) Essential Health and Safety Requirements
No additional ones

- End of Certificate -