Translation

EU-Type Examination Certificate

- 2 Equipment intended for use in potentially explosive atmospheres Directive 2014/34/EU
- 3 EU-Type Examination Certificate Number: BVS 20 ATEX E 013
- 4 Product: Dust monitor type FS710E-Ex / FSS750E-Ex
- 5 Manufacturer: Mütec Instruments GmbH
- 6 Address: Bei den Kämpen 26, 21220 Seevetal, Germany
- 7 This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.
- DEKRA Testing and Certification GmbH, Notified Body number 0158, 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 the confidential Report No./BVS/PP 20:2013 EU

9 The Essential Health and Safety Requirements are assured in consideration of:

EN IEC 60079-0:2018

EN 60079-11:2012

EN 60079-31:2014

Protection by Enclosure "t"

- If the sign "X" is placed after the certificate number it indicates that the product is subject to the Special Conditions for Use specified in the appendix to this certificate.
- 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.
- The marking of the product shall include the following:

(Ex) II 1/2D Ex ia ta/tb IIIC T200°C Da/Db

DEKRA Testing and Certification GmbH Bochum, 2020-02-19

Signed: Jörg-Timm Kilisch

Managing Director



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- 13 Appendix
- 14 EU-Type Examination Certificate

BVS 20 ATEX E 013

- 15 Product description
- 15.1 Subject and type

Dust monitor type FS710E-Ex / FSS750E-Ex

15.2 Description

The sensors FS710E-Ex and FSS750E-Ex are used for qualitative monitoring of dust content in flowing gaseous media.

The probe consists of a separately certified electronic housing and a metal sensor bar connected to it, which is triboelectrically charged in the presence of dust. The thread on the sensor bar closes the process from the environment and is thus involved in the Zone separation. The electronics housing is suitable for use in Zone 21. The sensor bar is supplied with intrinsically safe power. The intrinsic safety is established within the instrument.

Listing of all components used referring to older standards

Subject and type	Certificate////////////////////////////////////	///Standards
Enclosure Limatherm	FTZU 03 ATEX 0074U////	///EN/60079-0:2012+A11:2013
///////	<i>X////////////////////////////////////</i>	///ÆN/60079-1:2014
	<i>X////////////////////////////////////</i>	///EN/60079-31:2014

15.3 Parameters

15.3.1 Electrical data

Supply circuit Nominal voltage Nominal current Um	DC ACIDC	/18/.36 20<br /250	V mA V
Relais circuit Nominal voltage Nominal current Um	DC AC/DC	18.36 < 20 250	V mA V
Calibration circuit Nominal voltage Nominal current Um	DC AC/DC	1836 < 20 250	V mA V
RS485-bus circuit Nominal voltage Nominal current Um	DC AC/DC	1836 < 20 250	V mA V
Thermal data		MM	



Ambient temperature

Max. process temperature

15.3.2

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This certificate may only be reproduced in its entirety and without any change.

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Report Number

BVS PP 20.2013 EU, as of 2020-02-19

17 Special Conditions for Use

None

18 Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by the standards listed under item 9.

19 Drawings and Documents

Drawings and documents are listed in the confidential report.

We confirm the correctness of the translation from the German original.

In the case of arbitration only the German wording shall be valid and binding

DEKRA Testing and Certification GmbH Bochum, 2020-02-19 BVS-Hor/Mu A 20180855

Managing Director

