Translation

1 # Type Examination Certificate

2 Equipment intended for use in potentially explosive atmospheres
Directive 2014/34/EU

3 Type Examination Certificate Number: **BVS 17 ATEX E 003**

4 Product: **Flame detector type UniVario FMX5000 IR 3GD**

5 Manufacturer: **Viking GmbH & Co. KG**

6 Address: **Industriestraße 10/12, 23843 Bad Oldesloe, Germany**

7 This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.

8 DEKRA EXAM GmbH 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 17.2017 EU.

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

EN 60079-0:2012 + A11:2013	**General requirements**
EN 60079-15:2010	**Type of Protection "n"**
EN 60079-31:2014	**Protection by Enclosure "t"**

10 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.

11 This 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 3G Ex nA IIC T4 Gc
II 3D Ex tc IIIC T110°C Dc
or
II 3G Ex nAc IIC T4
II 3D Ex tc IIIC T110°C

DEKRA EXAM GmbH
Bochum, 2017-03-03

Signed: Jörg Koch
Certifier

Signed: Dr Michael Wittler
Approver

DEKRA EXAM GmbH, Dinnendahlstrasse 9, 44809 Bochum, Germany,
telephone +49.234.3696-105, Fax +49.234.3696-110, zs-exam@dekra.com

DAkkS Deutsche Akkreditierungsstelle D-ZE-12069-03-00

13 **Appendix**

14 **Type Examination Certificate**
BVS 17 ATEX E 003

15 **Product description**

15.1 **Subject and type**

Flame detector type UniVario FMX5000 IR 3GD

15.2 **Description**

The flame detector is used to detect open fire with IR-light radiating flames. It consists of a metal enclosure with a sapphire-window and optionally accessories for mounting can be fitted to the detector.

Additionally the flame detector can be equipped with a communication module type KMX5000 AP. The module transfers serial data of the detector status via the supply connection cable of the flame detector e.g. to a superior fire-detection system.

15.3 **Parameters**

Maximum Voltage	U_m	DC	30	V
Current Consumption (detector)			350	µA
Current (alarm signal)		ca.	16	mA
Current (fault signal)		ca.	16	mA
Ambient temperature range	T_{amb}		-20 up to +80	°C
Type of protection according EN 60529			IP65	

16 **Report Number**

BVS PP 17.2017 EU, as of 2017-03-03

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 EXAM GmbH
Bochum, dated 2017-03-03
BVS-Wlo/Kir/Nu A 20160998

Certifier

Approver

DAkkS Deutsche Akkreditierungsstelle D-ZE-12069-03-00

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Translation

1 # Type Examination Certificate Supplement 1

2 Equipment intended for use in potentially explosive atmospheres
Directive 2014/34/EU

3 Type Examination Certificate Number: **BVS 17 ATEX E 003**

4 Product: **Flame detector type UniVario FMX5000 IR 3GD**

5 Manufacturer: **Viking GmbH & Co. KG**

6 Address: **Industriestraße 10/12, 23843 Bad Oldesloe, Germany**

7 This supplementary certificate extends Type Examination Certificate No. BVS 17 ATEX E 003 to apply to products designed and constructed in accordance with the specification set out in the appendix of the said certificate but having any variations specified in the appendix attached to this certificate and the documents referred to therein.

8 DEKRA Testing and Certification GmbH 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. PP 17.2017 EU.

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

EN IEC 60079-0:2018	**General requirements**
EN 60079-15:2010	**Type of Protection "n"**
EN 60079-31:2014	**Protection by Enclosure "t"**

10 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.

11 This 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 3G Ex nA IIC T4 Gc
II 3D Ex tc IIIC T110°C Dc
or
II 3G Ex nA nC IIC T4 Gc
II 3D Ex tc IIIC T110°C Dc

DEKRA Testing and Certification GmbH
Bochum, 2020-07-06

Signed: Jörg-Timm Kilisch

Managing Director

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13 **Appendix**

14 **Type Examination Certificate**

BVS 17 ATEX E 003
Supplement 1

15 **Product description**

15.1 **Subject and type**

Flame detector type UniVario FMX5000 IR 3GD

15.2 **Description**

Reasons for the supplement:

- Adjusting the ambient temperature range
- Use of the current standard
- Minor technical changes

Description of Product:

The flame detector is used to detect open fire with IR-light radiating flames. It consists of a metal enclosure with a sapphire-window and optionally accessories for mounting can be fitted to the detector.
Optionally the flame detector can be equipped with a communication module type KMX5000 AP or a relay module type KMX5000 RK 3GD. The modules transfers serial data of the detector status via the supply connection cable of the flame detector e.g. to a superior fire-detection system.

15.3 **Parameters**

Electrical parameters

Maximum voltage	U_m	DC	30	V
Current consumption (detector)			350	µA
Current (alarm signal)		approx.	16	mA
Current (fault signal)		approx.	16	mA
Ambient temperature range	T_{amb}	-40 °C up to +80 °C		
Type of protection according EN 60529			IP65	

16 **Report Number**

BVS PP 17.2017 EU, as of 2020-07-06

17 **Special Conditions for Use**

None

DAkkS Deutsche Akkreditierungsstelle D-ZE-17438-02-00

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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, 2020-07-06
BVS-Wlo/Mu A 20200294

Managing Director

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