



Translation

EU-Type Examination Certificate Supplement 2

Change to Directive 2014/34/EU

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

EU-Type Examination Certificate Number: **BVS 15 ATEX E 056 X**

Product: **Ex-Camera type K55-HD-Ex and K55-4K-Ex**

Manufacturer: **F. H. Papenmeier GmbH & Co. KG**

Address: **Talweg 2, 58239 Schwerte, Germany**

This supplementary certificate extends EU-Type Examination Certificate No. BVS 15 ATEX E 056 X to apply to products designed and constructed in accordance with the specification set out in the appendix of the said certificate but having any acceptable variations 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 15.2082 EU.

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

EN IEC 60079-0:2018	General requirements
EN 60079-1:2014	Flameproof enclosure "d"
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:

 **II 2G Ex db IIC T6 Gb**
II 2D Ex tb IIIC T80°C Db

DEKRA Testing and Certification GmbH
Bochum, 2019-08-23

Signed: Jörg-Timm Kilisch

Managing Director





13 **Appendix**

14 **EU-Type Examination Certificate**

**BVS 15 ATEX E 056 X
Supplement 2**

15 **Product description**

15.1 **Subject and type**

Ex-Camera type K55-HD-Ex and K55-4K-Ex

15.2 **Description**

Reasons for this supplement:

- New type designation (due to new camera types)
- Design change of luminaire enclosure
- Other minor technical additions (nameplate, connection cover)

Description

The Ex-camera types K55-HD-Ex and K55-4K-Ex consists of an enclosure, a terminal compartment lid and a flanged ring with cemented window at the camera compartment. All metallic parts are made of stainless steel. The complete device is designed in type of protection Flameproof Enclosure "d" for usage in areas with potentially hazardous gas atmosphere and in type of protection Protection by Enclosure "t" for usage in areas with potentially hazardous dust atmospheres.

Different camera modules can be used. However, the appropriate temperature range must be selected.

The lid of the terminal compartment and the flanged ring with cemented window are used with O-rings to prevent ingress of water and dust.

The enclosure is divided into two sub-compartments with a separation plate which has got several holes to link both compartments.

15.3 **Parameters**

Electrical parameters

Rated voltage	DC	12 V
Rated power		5 W

Thermal parameters

Ambient temperature range	$-10\text{ }^{\circ}\text{C} \leq T_{\text{amb}} \leq +50\text{ }^{\circ}\text{C}$
Ambient temperature range (Zoom camera)	$0\text{ }^{\circ}\text{C} \leq T_{\text{amb}} \leq +40\text{ }^{\circ}\text{C}$
Temperature class	T6
Maximum surface temperature	T80 °C

Other parameters

Ingress protection	IP65 / IP67
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16 **Report Number**

BVS PP 15.2082 EU, as of 2019-08-23





17 **Special Conditions for Use**

If the Ex-camera device type K55**-Ex has got a fixed cable tail, this cable must be protected for operation so that no electrostatic hazard can occur.

The length of the supply line must be 1 m minimum.

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, 2019-08-23
BVS-WIo/Mu A 20180977



Managing Director

