

Translation

EU-Type Examination Certificate

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

EU-Type Examination Certificate Number: **BVS 20 ATEX E 029 X**

Product: **Heizblöcke type JHBEX - * * * * * 0**

Manufacturer: **JCT Analysentechnik GmbH**

Address: **Werner-Heisenberg-Straße 4, 2700 Wiener Neustadt, Austria**

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 20.2086 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 (1)2G Ex db [Ga] IIC T2/230°C(T2)/T3/T4 Gb
II 2G Ex db IIC T3/T4 Gb
II (1)2D Ex tb [Da] IIIC T300°C/T230°C/200°C/T135°C Db
II 2D Ex tb IIIC 200°C/T135°C Db

DEKRA Testing and Certification GmbH
Bochum, 2020-07-17

Signed: Jörg-Timm Kilisch

Managing Director

13 **Appendix**

14 **EU-Type Examination Certificate**

BVS 20 ATEX E 029 X

15 **Product description**

15.1 **Subject and type**

Heating block type JHBEX - a b c d e f

temperature class

a:	300	T2 / T300°C
	230	230°C (T2) / T230°C
	200	T3 / T200°C
	135	T4 / T135°C

zone heating into

b:	0	zone 0 / 20
	1	zone 1 / 21

contact area

c: not relevant for explosion protection

mounting device

d: not relevant for explosion protection

cable length

e: not relevant for explosion protection

cable gland

f: 0 not armoured

15.2 **Description**

The heating block JHBEX - * * * * * 0 is developed for use in explosive atmospheres. The temperature is controlled by self-regulating PTC heating elements if necessary in combination with integrated control and safety elements. For undertemperature detection, a hole can be provided for mounting a sensor.

15.3 **Parameters**

15.3.1 electrical data

Nominal voltage	115 ... 230	V AC
Inrush current	< 2	A
Power consumption	30 ... 200	W
Circuit protection	6 ... 10	A

15.3.2 thermal data

Temperature at place of installation (JHBEX-3*****0 und JHBEX-23*****0)	-60 ... +135	°C
Temperature at place of installation (JHBEX-20*****0)	-60 ... +150	°C
Temperature at place of installation (JHBEX-135*****0)	-60 ... +100	°C

16 **Report Number**

BVS PP 20.2086 EU, as of 2020-07-17

17 **Special Conditions for Use**

The connection cable shall have a minimal length of 300 mm measured from the cable gland.
The JHBEX-*****0 may only be used with a thermal load that guarantees the minimum power dissipation type specifically stated in the operating instructions. If heating of zone 20 is intended the minimum power dissipation must be determined with a dust layer.
At ambient temperatures below -40 °C the JHBEX-*****0 has to be energized.

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, 2020-07-17
BVS-Hor/Ar A20190594



Managing Director