IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx BVS 20.0023X**	Page 1 of 3	Certificate history:
Status:	**Current**	Issue No: 0	
Date of Issue:	2020-07-20		

Applicant: **JCT Analysentechnik GmbH**
Werner-Heisenberg-Straße 4
2700 Wiener Neustadt
Austria

Equipment: **Heater type JHBEx-*** * * * ** 0**

Optional accessory:

Type of Protection: **Flameproof enclosures "d"; Dust ignition protection by enclosure "t"**

Marking:

JHBEX-***0****0:
Ex db [Ga] IIC T2/230°C(T2)/T3/T4 Gb
Ex tb [Da] IIIC T300°C/T230°C/T200°C/T135°C Db

JHBEX-***1****0:
Ex db IIC T3/T4 Gb
Ex tb IIIC T200°C/T135°C Db

JHBEX-***2****0:
Ex db IIC 230°C (T2) /T3/T4 Gc
Ex tb IIIC T230°C/T200°C/T135°C Dc

Approved for issue on behalf of the IECEx Certification Body: **Dr Franz Eickhoff**

Position: **Deputy Head of Certification Body**

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

DEKRA Testing and Certification GmbH
Certification Body
Dinnendahlstrasse 9
44809 Bochum
Germany

DEKRA
On the safe side.

IECEx Certificate of Conformity

Certificate No.: **IECEx BVS 20.0023X**

Date of issue: 2020-07-20 Issue No: 0

Manufacturer: **JCT Analysentechnik GmbH**
Werner-Heisenberg-Straße 4
2700 Wiener Neustadt
Austria

Additional manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

DE/BVS/ExTR20.0045/00

Quality Assessment Report:

DE/BVS/QAR19.0003/01

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

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
	2	zone 2 / 22

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

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.

Parameters:

electrical data

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

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

SPECIFIC CONDITIONS OF USE: YES as shown below:
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.