



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 EPS 19.0115X	Page 1 of 3	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2020-04-21		
Applicant:	eltherm Production GmbH Ernst-Heinkel-Straße 6-10 57299 Burbach Germany		
Equipment:	Heat tracing system type ELK-AG-4Ex		
Optional accessory:			
Type of Protection:	Trace heating, increased safety, dust ignition protection		
Marking:	Ex 60079-30-1 eb IIC T6...T3 Gb Ex 60079-30-1 tb IIIC T80°C...T200°C Db		

Approved for issue on behalf of the IECEx
Certification Body:

Holger Schaffer

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

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:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany





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Certificate No.: **IECEx EPS 19.0115X**

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Date of issue: 2020-04-21

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Manufacturer: **eltherm Production GmbH**
Ernst-Heinkel-Straße 6-10
57299 Burbach
Germany

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

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

IEC/IEEE 60079-30-1:2015 Explosive atmospheres - Part 30-1: Electrical resistance trace heating - General and testing requirements
Edition:1.0

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/EPS/ExTR19.0117/00

Quality Assessment Report:

FR/INE/QAR12.0007/05



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The heat tracing system type ELK-AG-4Ex consists of IECEx approved components and is suitable for temperature maintenance of pipes, vessels and associated equipment in hazardous areas.

The system assembly consists of:

- Series single core trace heater ELKM-AG-E (Certificate: IECEx EPS 19.0070U)
- Connection sleeve Ex-Con 22/4 Si (Certificate: IECEx IBE 13.0012X)

Electrical data:

Max. Voltage: 750 VAC

Max. Current: 45 A

SPECIFIC CONDITIONS OF USE: YES as shown below:

The system is suitable for ambient temperatures not lower than -60°C and a maximum process temperature of +200°C. The maximum maintenance temperature will be determined by eltherm or by use of eltherm design software 2.0 for each heating circuit and is stated on the product label. If heating circuit design is made by the customer, confirmation of the design through manufacturer for the receipt of the product label is required (www.eltherm.com).

Operation in Zone 1 or Zone 21 requires controlled design (with temperature controllers and limiters) or stabilized design as per IEC 60079-30-2. Determination of T-Class for every single heating circuit to be performed by eltherm. See also manufacturer documentation.

The system is suitable for use in applications with a low risk of mechanical damage (4J).

The electrical connection needs to be made to a suitable junction box approved for hazardous areas (including glands suitable for cable of 3.5 - 6 mm OD) or outside the hazardous area.

Installation and commissioning shall only be carried out by trained specialists personnel in accordance with the requirements of IEC 60079-14, Annex F and in accordance with the manufacturer's specifications.