

(1) **EU - Type Examination Certificate**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – **Directive 2014/34/EU**

(3) EU - Type Examination Certificate Number

EPS 19 ATEX 1 261 X

Revision 0

(4) Equipment: Heat tracing system type ELK-AG-4Ex

(5) Manufacturer: eltherm production GmbH

(6) Address: Ernst-Heinkel-Straße 6-10
57299 Burbach
Germany

(7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 19TH0528.

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN 60079-7:2015/A1:2018

EN 60079-30-1:2017

EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.

(11) This EU - Type Examination Certificate relates only to the design and construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

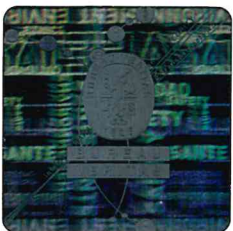
(12) The marking of the equipment shall include the following:



II 2G Ex 60079-30-1 eb IIC T6...T3 Gb



II 2D Ex 60079-30-1 tb IIIC T80°C...T200°C Db



Certification department of explosion protection

Hamburg, 2020-04-21



(13) **Annex**

(14) **EU - Type Examination Certificate EPS 19 ATEX 1 261 X**

Revision 0

(15) Description of equipment:

The heat tracing system type ELK-AG-4Ex consists of ATEX 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: EPS 19 ATEX 1 146 U)
- Connection sleeve Ex-Con 22/4 Si (Certificate: IBExU04ATEX1005X)

Electrical data:

Max Voltage: 750 VAC

Max. Current: 45 A

(16) Reference number: 19TH0528

(17) Special conditions for safe use:

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 EN 60079-30-2. Determination of T-Class for every single heating circuit to be performed by eltherm. See also instruction manual.

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 EN 60079-14, Annex F and in accordance with the manufacturer's specifications.

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection

Hamburg, 2020-04-21

