

EU - Type Examination Certificate

(1)

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

(3) EU - Type Examination Certificate Number

EPS 21 ATEX 1 198 X

Revision 1

(4) Equipment: Trace heating system ELP/PFA Ex

(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 21TH0450_01.

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

EN IEC 60079-0:2018

EN 60079-30-1:2017

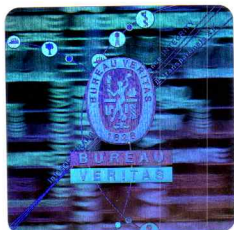
(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions of use specified in the annex to this certificate.

(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 IIC T2... T6 Gb

 II 2D Ex 60079-30-1 IIIC Txxx°C Db



Certification department of explosion protection

Tuerkheim, 2026-01-09

Certifier

Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH.

(13)

Annex

(14) **EU - Type Examination Certificate EPS 21 ATEX 1 198 X**

Revision 1

(15) Description of equipment:

The trace heating system ELP/PFA Ex consists of ATEX-approved components and is suitable for industrial use on pipes, vessels and related equipment in areas with combustible gas or dust (Equipment Group II, Equipment Protection Level Gb and Db for T-Class T2...T6 or Txxx°C).

The system assembly consists of the following:

- Trace heater ELP/PFA-... with power output 15, 30, 45 and 60 W/m at 10 °C and 230 VAC
(EPS 12 ATEX 1 438 U)
- Cable gland M25x1.5 (IBExU07ATEX1022X)
- Cable gland EL-GSR (IBExU25ATEX1041X)
- Ex d cable gland A8(B/S)F20s (CML19ATEX1346X)
- End cap EL-ECP (EPS 17 ATEX 1 146 U)

Electrical data:

Supply voltage: 230 / 277 V AC

Power: 15, 30, 45 and 60 W/m

(16) Reference number: 21TH0450_01

(17) Special conditions of use:

The maximum maintain temperature will be determined by eltherm or by the use of design software "eltherm designer 2.0" for each heating circuit and is stated on the product label.

Operation in a hazardous area (zones 1, 2, 21 or zone 22) requires controlled design (using temperature controllers and limiters) or stabilized design as per EN 60079-30-2. Determination of the temperature class for every single heating circuit to be performed by eltherm. See also manufacturer documentation.

If the system is installed with plastic glands M25x1.5 at ambient temperatures below -25 °C the glands need to be installed in a way to be protected from mechanical stress > 4J.

The maximum allowed maintain temperature is from -60 °C to +200 °C for heaters with power output 15, 30 and 45 W/m and to +180 °C for heaters with power output 60 W/m. The allowed continuous exposure temperature in deenergized state is from -60 °C to +250 °C.

The electrical connection needs to be in a separately certified enclosure or outside of the hazardous area.

Installation and commissioning shall only be carried out by trained 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.



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Tuerkheim, 2026-01-09