

IBExU Institut für Sicherheitstechnik GmbH

An-Institut der TU Bergakademie Freiberg

[1] EU-TYPE EXAMINATION CERTIFICATE - Translation



- [2] Equipment or protective systems intended for use in potentially explosive atmospheres, Directive 2014/34/EU
- [3] EU-type examination certificate number **IBExU03ATEX1130 X** | Issue 2
- [4] Product: **Capillary tube thermostat**
Type: EL-CT and EL-CT (2)
- [5] Manufacturer: eltherm production GmbH
- [6] Address: Ernst-Heinkel-Straße 6-10
57299 Burbach
GERMANY
- [7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] IBExU Institut für Sicherheitstechnik GmbH, notified body number 0637 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 test report IB-21-3-0227.
- [9] Compliance with the essential health and safety requirements has been assured by compliance with:
EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-31:2014
except in respect of those requirements listed at item [18] of the schedule.
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the specific conditions of use specified in the schedule to this certificate.
- [11] 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.
- [12] The marking of the product shall include the following:

II 2G Ex db IIC T6 Gb

II 2D Ex tb IIIC T85 °C Db

-32 °C bzw. -50 °C ≤ Ta ≤ +50 °C

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg, GERMANY

By order

Dipl. Ing. [FH] A. Henker



(notified body number 0637)

Tel: + 49 (0) 37 31 / 38 05 0
Fax: + 49 (0) 37 31 / 38 05 10

Certificates without signature and seal are not valid. Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail.

Freiberg, 2022-08-05

[13] **Schedule**

[14] **Certificate number IBExU03ATEX1130 X | Issue 2**

[15] **Description of product**

The Capillary tube thermostat type EL-CT and EL-CT (2) is provided for the connection of a heating conductor in potentially explosive atmospheres.
It consists of a flameproof enclosure with built in thermostat and capillary tube bushing.

Technical data:

Ambient temperature range:	-32 °C up to + 50 °C for EL-CT -50 °C up to + 50 °C for EL-CT (2)
Max. Voltage:	230 V 400 V EL-CT (2)
Max. Current:	16 A 20 A EL-CT (2) three pole version only
Degree of protection according to EN 60529:	IP66

Variation compared to issue 1 of this certificate:

Equipment are manufactured with accordance to EN IEC 60079-0:2018.

The technical data and parameters remain unchanged.

[16] **Test report**

The test results are recorded in the confidential test report IB-21-3-0227 of 2022-07-21.
The test documents are part of the test report and they are listed there.

Summary of the test results

The Capillary tube thermostat type EL-CT and EL-CT (2) meets the requirements of explosion protection for devices of group II, category 2G in type of protection flameproof enclosure "d" and category 2D in type of protection protection by housing "tb".

[17] **Specific conditions of use**

- When selecting the cable glands as well as the connection cable, the corresponding requirements of IEC 60079-14, section 10.6.2 must be observed.
- Only temperature-resistant cables, which are suitable for a temperature of at least 90 °C, may be used at the Capillary tube thermostat types EL-CT and EL-CT (2).
- The cable entry supplied by the manufacturer may be used only for fixed installation. The operating company has to ensure an appropriate clamping.
- Repair of the flameproof joints is not permitted.

[18] **Essential health and safety requirements**

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item [9], the following are considered relevant to this product, and conformity is demonstrated in the test report: None

[19] **Drawings and Documents**

The documents are listed in the test report.

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