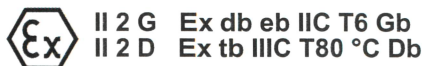




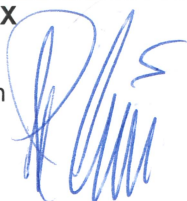
(1) **EU-Type Examination Certificate**

- (2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 2014/34/EU**
- (3) Certificate number: **SEV 15 ATEX 0156 X**
- (4) Product: Temperature switch Thermostat 404 / 414, Thermostat 409 / 419
- (5) Manufacturer: Trafag AG
- (6) Address: Industriestrasse 11, 8606 Bubikon, Switzerland
- (7) The equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) Eurofins, notified body No. 1258, 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 confidential report no 21CH-00404.X03
- (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**  
**EN 60079-7:2015**  
**EN IEC 60079-7:2015/A1:2018**
- 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 subjected to special conditions for safe use specified in the schedule to this certificate. The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.
- (11) This EU type examination certificate relates only to design and construction of the specified product. Further requirements of this 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:



**Eurofins Electric & Electronic Product Testing AG**  
**Notified Body ATEX**

Martin Plüss  
Product Certification




(13)

## Appendix

(14)

**EU-Type Examination Certificate no. SEV 15 ATEX 0156 X**

(15) **General product information**

Temperature controllers are used for controlling or limiting the temperature of electric resistance heaters in potentially explosive atmospheres. The temperature controllers and safety temperature limiter are designed for stationary installation only.

Classification of installation and use:

stationary

Ingress protection:

IP6x

Rated ambient temperature range (°C):

$-30\text{ °C} \leq T_{amb} \leq +60\text{ °C}$

(16) **Report number**

21CH-00404.X03

(17) **“Special conditions for safe use” / “Schedule of limitations”**

- Only fix cable installation. The cable shall have strain relief.
- The maximum thermal stability of the cable shall be considered.
- The device has to be installed protected against UV radiation.
- For applications in acetylene atmospheres, the temperature probe made of copper material must be protected from mechanical shock and friction, as acetylides can form on the outer surfaces which can be ignited by friction or shock. The steel or nickel-plated protection tube provided by the manufacturer must be used.

(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 report:

| Clause | Subject |
|--------|---------|
| None   |         |

(19) **Drawings and Documents**

See test report “Manufacturer’s Documents”

**Rating:**

| Characteristics | Types 404 / 414                             | Types 409 / 419                      |
|-----------------|---|--------------------------------------|
| Description     | Ex industrial thermostat with remote sensor | Ex industrial room thermostat        |
| Measure range   | -30 ... +40 °C<br>to<br>+70 ... +350 °C     | -30 ... +30 °C<br>to<br>0 ... +60 °C |

| Ranges:                                | Ambient temperatures | Ambient temperatures |
|--|----------------------|----------------------|
| From Datasheet and Installation manual |                      |                      |
| ≤ +45 °C                               | -30 ... +50 °C       | ---                  |
| + 45 to +250 °C                        | -30 ... +60 °C       | ---                  |
| ≥ +250 °C                              | -10 ... +60 °C       | ---                  |
| -30 ... +30 °C                         | ---                  | -30 ... +40 °C       |
| +5 ... +35 °C                          | ---                  | -30 ... +50 °C       |
| 0 ... +60 °C                           | ---                  | -30 ... +60 °C       |

|                        | Types 404 / 414 / 409 / 419  |                              |
|------------------------|------------------------------|------------------------------|
| Output                 | Floating change-over contact | Floating change-over contact |
| Switching differential | Not adjustable               | Not adjustable               |
| Electrical data switch | V a.c.                       | A a.c.                       |
|                        | 250                          | 5 (5)                        |
|                        | 125                          | 5 (5)                        |
|                        | V d.c.                       | A d.c.                       |
|                        | 250                          | 0.25 (0.03)                  |
|                        | 125                          | 0.5 (0.06)                   |
|                        | 75                           | 0.75 (0.25)                  |
|                        | 50                           | 1 (1)                        |
|                        | 30                           | 5 (3)                        |
|                        | 15                           | 5 (3)                        |

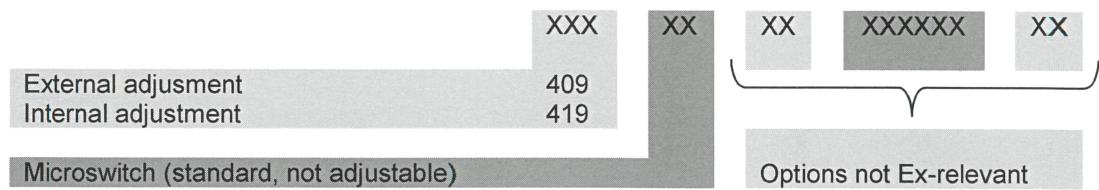
**Remark:**

Values for resistive loads and values in brackets for inductive loads



**Type code:**

Thermostat type EXAS 409/419 - Local sensor



Thermostat type EXS 404/414 - capillary remote sensor

