



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx SEV 17.0010X

Issue No: 0

Certificate history:

Issue No. 0 (2017-08-29)

Status: Current

Page 1 of 5

Date of Issue: 2017-08-29

Applicant: **Trafig AG**
Sensors and Controls
Industriestrasse 11, 8608 Bubikon, SWITZERLAND
Switzerland

Equipment: Industry thermostats 404 / 414 and 409 / 419

Optional accessory:

Type of Protection: "db", "eb", "tb"

Marking:

Ex db eb IIC T6 Gb
Ex tb IIIC T80 °C Db

Approved for issue on behalf of the IECEx
Certification Body:

Martin Plüss

Position:

Manager Product Certification

Signature:
(for printed version)

Date:

2017-08-29

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 the Official IECEx Website.

Certificate issued by:

Eurofins Electrosuisse Product Testing AG
Luppenstrasse 1
CH-8320 FEHRALTORF
Switzerland



**Electrosuisse
Product Testing**



IECEX Certificate of Conformity

Certificate No: IECEx SEV 17.0010X Issue No: 0
Date of Issue: 2017-08-29 Page 2 of 5
Manufacturer: **Trafag AG**
Sensors and Controls
Industriestrasse 11
8608 Bubikon
Switzerland

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

This Certificate does not indicate compliance with electrical 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:

CH/SEV/ExTR17.0008/00

Quality Assessment Report:

CH/SEV/QAR12.0008/03



IECEx Certificate of Conformity

Certificate No: IECEx SEV 17.0010X

Issue No: 0

Date of Issue: 2017-08-29

Page 3 of 5

Schedule

EQUIPMENT:

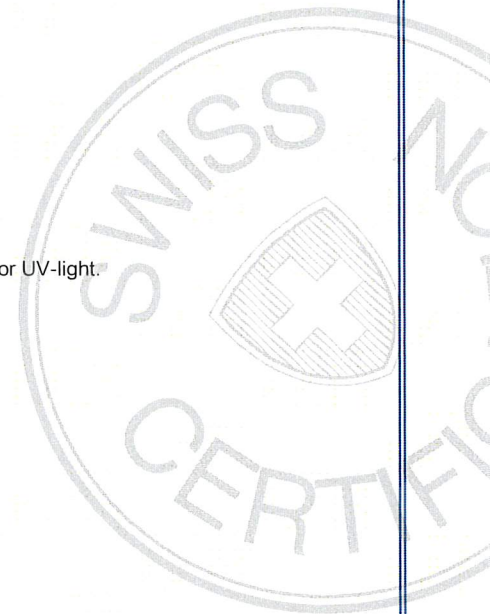
Equipment and systems covered by this certificate are as follows:

Industry thermostats 404 / 414 and 409 / 419

Ratings see page

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The same special conditions apply as shown as the cable glands certificate:
Only fix cable installation. The cable shall have strain relief.
The maximum thermal stability of the cable has to be considered.
- The product must be protected against direct sunlight (e.g. behind UV-protected windows panes) or UV-light.





IECEX Certificate of Conformity

Certificate No: IECEx SEV 17.0010X

Issue No: 0

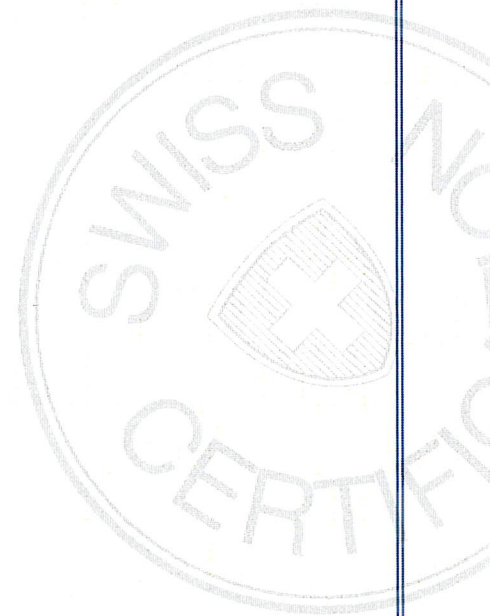
Date of Issue: 2017-08-29

Page 4 of 5

Additional information:

Type Rating

Characteristics	Types 404 / 414	Types 409 / 419
Description	Ex industrial thermostat with remote sensor	Ex industrial room thermostat
Measure range	-30 .. +40 °C to +70 ... + 350 °C	-30 .. +30 °C to 0 ... + 60 °C
Ranges:	Ambient temperatures	
From Datasheet 2014/05		
≤+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
From 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





IECEX Certificate of Conformity

Certificate No: IECEx SEV 17.0010X

Issue No: 0

Date of Issue: 2017-08-29

Page 5 of 5

Types 404 / 414 / 409 / 419

Output	Floating change-over contact	Floating change-over contact
Switching differential	Not adjustable	Not adjustable
	V a.c.	A a.c.
	250	5 (5)
	125	5 (5)
Electrical data switch	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

