



**BUREAU  
VERITAS**



## (1) EC-Type Examination Certificate

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres –  
**Directive 94/9/EC**

(3) EC Type Examination Certificate Number

**EPS 11 ATEX 1 354**

**Revision: 2**

(4) Equipment: Thermostat Type exTHERM-605055

(5) Manufacturer: JUMO GmbH & Co. KG

(6) Address: Moritz-Juchheim-Straße 1  
36039 Fulda

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

(8) Bureau Veritas Consumer Products Services Germany GmbH, Notified Body No. 2004 in accordance with Article 9 of the Council Directive 94/9/EC of March 23rd 1994, 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 report 11TH0425.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0:2012+A11:2013    EN 60079-1:2007    EN 60079-7:2007    EN 60079-26:2007**  
**EN 60079-31:2009            EN 50495:2010    EN 13463-6:2005**

(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 schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design and the construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

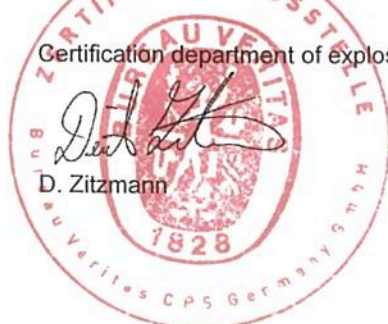
(12) The marking of the equipment shall include the following:



II 2 G Ex d e IIC T4/T5/T6 Gb  
II 2 D Ex tb IIIC T85°C/T100°C/T130°C Db

Certification department of explosion protection

Nuremberg, October 31, 2014



D. Zitzmann



(13)

## Annexe

(14) **EC-Type Examination Certificate EPS 11 ATEX 1 354**

(15) Description of equipment:

The thermostat exTHERM-AT-605055 is used to control and regulate thermal processes in hazardous Gas and Dust location.

Marking note: (\*1) : device ignition protection  
 (\*2) : protective equipment (electrical ignition protection)  
 (\*3) : protective equipment (nonelectrical ignition protection)

The enclosure provides type of protection Ex-e and Ex-t with minimum IP64 ingress protection. Depending on model the maximum ambient temperature range is from -60°C to +80°C. The temperature class depending on switch current and ambient temperature is given in following table:

Max. ambient Temperature	Max. Switching Current	Temperature class	Max. Surface Temperature
50°C	25A	T5	T100°C
80°C	16A	T5	T100°C
50°C	16A	T6	T85°C
40°C	25A	T6	T85°C
80°C	25A	T4	T130°C

1. Revision:

Together with the protection sleeve type 605057 (EPS 12 ATEX 1 423 U) the thermostat can be built on a wall or pipe where the inside location requires EPL level Ga (zone 0) or Da (zone 20).

The instructions and special conditions in the instruction manual and in the component certificate of the sleeve shall be respected.

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(15) Description of equipment (continuation):

2. Revision:

As a protective system the thermostat type exTHERM-605056 can be used for the control of ignition source "b" (EN 13463-6) for non-electrical devices and for electrical devices (EN 50495).

Description:

Temperature control (Temperaturwächter) (TW)  
 Safety temperature control (Sicherheitstemperaturwächter) (STW)  
 Safety temperature limiter (Sicherheitstemperaturbegrenzer) (STB)

Type	Description	SIL-classification	IPL-classification
0002	TW	No SIL	No IPL
0020	STW	SIL 2, HFT=0, Architecture 1oo1	IPL 1
0070	STB	SIL 2, HFT=0, Architecture 1oo1	IPL 1
0202	TW / TW	Kein SIL	Kein IPL
0220	TW / STW	SIL 2, HFT=0, Architecture 1oo1	IPL 1
0270	TW / STB	SIL 2, HFT=0, Architecture 1oo1	IPL 1
2020	STW / STW	SIL 2, HFT=1, Architecture 1oo2	IPL 2
2070	STW / STB	SIL 2, HFT=1, Architecture 1oo2	IPL 2
7070	STB / STB	SIL 2, HFT=1, Architecture 1oo2	IPL 2

For use as a protective system an additional marking will be added to the thermostat. The additional marking is determined by the equipment under control (EUC). Examples for the additional marking:

- II (2)G [Ex e] Temperature control for an apparatus protected by ignition protection increased safety « Ex e » (according to EN 50495:2010)
- II (2)G [Ex d] Temperature control for an bearing feed through of an enclosure protected by ignition protection flameproof enclosure « Ex d » (according to EN 50495:2010)
- II (2)D [Ex tb] Temperature control for an apparatus protected by ignition protection by enclosure « Ex t » (according to EN 50495:2010)
- II (2)G (b1/b2)  
II (2)D (b1/b2) Temperature control for an apparatus protected by non-electrical ignition protection by control of ignition source « b » (according to EN 13463-6:2005)

(16) Test report: 11TH0155

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(17) Special conditions for safe use:

None.

(18) Essential health and safety requirements:

Met by standards.

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