

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

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

(3) EU - Type Examination Certificate Number

**EPS 11 ATEX 1 354**

**Revision 5**

(4) Equipment: Thermostat Type exTHERM-605055

(5) Manufacturer: JUMO GmbH & Co. KG

(6) Address: Moritz-Juchheim-Straße 1  
36039 Fulda  
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 11TH0425.

(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 60079-7:2015/A1:2018**

**EN 60079-26:2015**

**EN 60079-31:2014**

**EN 50495:2010**

**EN ISO 80079-37:2016**

(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 annex to this certificate.

(11) This EU - Type Examination Certificate relates only to the design and examination 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 db eb IIC T4/T5/T6 Gb

II 2D Ex tb IIIC T85°C/T100°C/T130°C Db



Certification department of explosion protection

Hamburg, 2020-12-04

(13) **Annex**

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

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(15) Description of equipment:

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

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
55°C	25A	T4	T130°C

Description of types

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

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Description of equipment (continuation):

List of types, combinations and SIL Ratings

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	No SIL	No 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 [Ex h] Temperature control for an apparatus protected by non-electrical ignition protection by control of ignition source « b » (according to EN ISO 80079-37)
- II (2)D [Ex h]

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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.

2. Revision:

As a protective system the thermostat type exTHERM-605056 can be used for the control of ignition source "b" (EN ISO 80079-37) for non-electrical devices and for electrical devices (EN 50495).

3. Revision:

Update of standards.

4. Revision:

Update of standards.

5. Revision

Update of standards and correction of temperature ratings

(16) Reference number: 11TH0425

(17) Special conditions for safe use:

None.

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection

Hamburg, 2020-12-04

