IBExU Institut für Sicherheitstechnik GmbH

An-Institut der TU Bergakademie Freiberg

[1] EC-TYPE EXAMINATION CERTIFICATE

according to Directive 94/9/EC, Annex III

(Translation)



- [2] Equipment and Protective Systems intended for use in Potentially Explosive Atmospheres, Directive 94/9/EC
- [3] EC-Type Examination Certificate Number:

IBExU13ATEX1125

[4] Equipment:

Pressure switches and thermostates

Type SCH-Ex-... and TER-Ex-...

[5] Manufacturer:

Kobold Messring GmbH

[6] Address:

Nordring 22-24 65719 Hofheim/Ts.

Germany

- [7] The design of the equipment mentioned under [4] and any acceptable variation thereto are specified in the schedule to this EC-Type Examination Certificate.
- [8] IBExU Institut für Sicherheitstechnik GmbH, NOTIFIED BODY number 0637 in accordance with article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that the equipment mentioned under [4] has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

 The test results are recorded in the test report IB-13-3-199 of 25 November 2013.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012, EN 60079-1:2007 EN 60079-7:2007 and EN 60079-31:2009.
- [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 under [17] in the schedule to this EC-Type Examination Certificate.
- [11] This EC-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this directive apply to the manufacture and supply of this equipment.
- [12] The marking of the equipment mentioned in [4] shall include the following:

Type SCH-Ex-...

Il 2G Ex d e IIC T6 Gb and II 1/2D Ex ta/tb IIIC T80 °C Da/Db
 -20 °C ≤ Ta ≤ +60 °C

Type TER-Ex-...

E II 2G Ex d e IIC T6 Gb and E II 1/2D Ex ta/tb IIIC T80 °C Da/Db -20 °C \leq Ta \leq +60 °C

IBExU Institut für Sicherheitstechnik GmbH

Fuchsmühlenweg 7 -

09599 Freiberg, Germany

1 +49 (0) 3731 3805-0 -

49 (0) 3731 23650

Authorised for certifications Explosion protection

By order

(Dr. Wagner)

or. wagner)

- Seal-(ID no. 0637)

IBEXU Institut für

Sicherheits=

technik

GmbH

Freiberg, 25 November 2013

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.

Schedule

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[13] Schedule

[14] to the EC-TYPE EXAMINATION CERTIFICATE IBExU13ATEX1125

[15] Description of equipment

The pressure switches and thermostates type SCH-Ex-... and TER-Ex-... consist of a body in the increased safety protection, or protection by enclosure in the separately approved flameproof switches and connectors are built in. The devices are designed for use in hazardous areas requiring Category 2G or 2D equipment, provided. The process connection meets the requirements for 1D- equipment.

Type extent Ex d, Ex e and Ex-t pressure switch

Туре	pressure
SCH-Ex-DCM	Same
SCH-Ex-DDCM	2000
SCH-Ex-DGM	(696
SCH-Ex-DNM	(8.83)
SCH-Ex-DNS	399
SCH-Ex-DWR	Sketch
SCH-Ex-VCM	508.40
SCH-Ex-VNM	34000
SCH-Ex-VNS	3555

Type extent Ex d, Ex e and Ex-t thermostats

T		
Туре	temperature	remarks
TER-Ex-TAM	322	with protection tube zone 20
TER-Ex-TRM	5666	room thermostat, zone 1 and 21
TER-Ex-TX	:#88	with protection tube zone 20
TER-Ex-TXB		with protection tube zone 20

Technical Data

Ambient temperature range.

-20 °C to +60 °C

Degree of protection:

IP65

Electrical Data

Rated voltage

U_e ≤ 250 V

Rated current

max. 3 A AC, $\cos \varphi \ge 0.9$

max. 0.1 A DC

[16] Test report

The proof of explosion protection is explained in detail in the test report IB-13-3-199. The test documents are part of the test report and are listed there.

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<u>Summary of the test results:</u>
The pressure switches and thermostates type SCH-Ex-... and TER-Ex... fulfil the requirements of type of protection increased Safety in connection with flameproof switches for an electrical equipment of the Equipment Group II, Category 2G, Explosion Group IIC and protection by enclosures Category 1/2D or 2D, Explosion Group IIIC.

[17] **Special conditions**

none

Essential Health and Safety Requirements [18]

Confirmed by compliance with standards (see [9]).

By order

Freiberg, 25 November 2013

(Dr. Wagner)