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: **IBExU15ATEX1014 X**

[4] Equipment: Ex-Gland type M25 x 1.5

[5] Manufacturer: HTS Global Technologies AG

[6] Address: Am Unisys Park 6
65843 Sulzbach
GERMANY

[7] The design of the equipment mentioned under [4] and any acceptable variations 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-14-3-264 of 16 February 2015.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012, EN 60079-7:2007 und 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 under [4] shall include the following:

II 2G Ex e IIC Gb **II 2D Ex tb IIIC Db**

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7 - 09599 Freiberg, GERMANY
☎ +49 (0) 3731 3805-0 - 🖷 +49 (0) 3731 23650

Authorised for certifications
-Explosion protection-

By order

(Dr. Wagner)

Zertifizierungsstelle Explosionsschutz IBExU Institut für Sicherheitstechnik GmbH * Kenn-Nr. 0637 *

- Seal -
(ID no. 0637)

Freiberg, 16 February 2015

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

[13] **Schedule**

[14] **to the EC-Type Examination Certificate IBExU15ATEX1014 X**

[15] **Description of equipment**

The Ex-Gland type M25 x 1.5 serves as cable entry for certified flat heating cables in certified terminal boxes in type of protection „e" and „tb".
It essentially consists of an intermediate gland, a pressure screw, a special sealing ring of silicone for flat cable and a clamping sleeve as additional clamping.

Technical data:

- Thread size:	M25x1.5
- Permissible cable dimensions:	4 mm x 11 mm up to 5.5 mm x 14 mm
- Bolt torque:	2 Nm
- Degree of protection according to EN 60529:	IP 65
- Operating temperature range:	-25 °C up to +70 °C (7 J) -55 °C up to +70 °C (4 J)

[16] **Test report**

The test results are recorded in the test report IB-14-3-264 of 16 February 2015. The test documents are listed in the annex to the test report.

Summary of the test results:

The Ex-Gland type M25 x 1.5 fulfils the requirements of explosion protection for equipment of Group II, Category 2G, type of protection Increased safety „e" as well as Category 2D, type of protection Protected by enclosure „tb".

Safety instructions

- The service temperature on the Ex-Gland must not exceed the allowed operating temperature of 70 °C.
- At the installation the Ex-Gland has to be screwed tightly and the pressure screw has to be screwed on strongly with the required torque. For it suitable tools have to be used.
- The required degree of protection IP 65 is ensured only at appropriate selection of the cable entry and the approved seal as well as at appropriate installation in the electrical apparatus.

[17] **Special conditions for safe use**

- The Ex-Gland type M25 x 1.5 may only be used for fixed installation exclusively. The operating company has to ensure an appropriate clamping.
- At use in a temperature range from < -25 °C up to -55 °C the cable gland according to EN 60079-0:2004 must be installed and operated protected according to the low risk of mechanical danger.

[18] **Essential Health and Safety Requirements**

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

By order

Freiberg, 16 February 2015

(Dr. Wagner)