CERTIFICATE

(1) EU-Type Examination

(2) **Component intended for use on/in equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **DEKRA 18ATEX0115 U** Issue Number: **0**

(4) Product: **Enclosure Series GUB**

(5) Manufacturer: **Rose Systemtechnik GmbH**

(6) Address: **Erbeweg 13-15, 32457 Porta Westfalica, Germany**

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

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential test report number NL/DEK/ExTR19.0093/00.

(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 60079-31 : 2014**

except in respect of those requirements listed at item 18 of the Schedule.

(10) The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

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

II 2 G Ex db IIB Gb or **Ex db IIC Gb**
II 2 D Ex tb IIIC Db

Date of certification: 14 November 2019

DEKRA Certification B.V.

R. Schuller
Certification Manager

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(13) # SCHEDULE

(14) **to EU-Type Examination Certificate DEKRA 18ATEX0115 U** Issue No. **0**

(15) **Description**

Enclosures Series GUB, made of aluminium, stainless steel or cast iron with a threaded cover, with or without display window, are intended to be used in potentially explosive atmospheres for the mounting of electrical apparatus such as terminals, switching-, control-, regulating-, measuring- and indicating devices.

The GUB series consist of 12 types:
- GUB 01 … GUB 06: enclosures in 6 different sizes, without display window;
- GUB 01W … GUB 06W: enclosures in 6 different sizes, with display window.

The electrical connections are made by using separately certified cable glands or conduit entries.

Service temperature range:
- GUB 01 … GUB 06: -20 °C to +130 °C
- GUB 01W …GUB 06W: -20 °C to +95 °C

Degree of protection IP66 according to EN 60529 and EN 60079-0.

Technical data

The relation between enclosure type, temperature class, maximum surface temperature, maximum ambient temperature and maximum allowed power dissipation is given in the table below.

Temperature class	T6			T5					T4				
Max. surface temperature*	T85 °C			T100 °C					T135 °C				
Maximum ambient temperature (°C)	40	50	60	40	50	55	60	75	40	50	60	90	110
GUB Type:	Maximum allowed power dissipation (W):												
01	82	-	38	-	-	82	-	38	-	-	-	82	38
01W		-		-	-		-		-	-	-	-	-
02	86	-	45	-	-	86	-	45	-	-	-	86	45
02W		-		-	-		-		-	-	-	-	-
03	114	-	64	-	-	114	-	64	-	-	-	114	64
03W		-		-	-		-		-	-	-	-	-
04	170	120	70	230	180	170	126	70	410	376	316	170	70
04W									-	-	-	-	-
05	218	168	91	291	226	218	159	91	491	451	400	218	91
05W									-	-	-	-	-
06	250	182	150	405	282	250	215	150	723	609	472	250	150
06W									-	-	-	-	-

* : values have been determined without a dust layer
- = …W types are not suitable for T4 / T135 °C

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate DEKRA 18ATEX0115 U** Issue No. **0**

Options

The threaded flamepaths may be provided with a max. 0,008 mm thick electro-plating.

The enclosures may be supplied in natural finish, electro-plated, powder coated or liquid painted. The painting thickness does not exceed 0,18 mm.

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. NL/DEK/ExTR19.0093/00.

(17) **Schedule of Limitations**

1. The application of the GUB enclosures shall be in accordance with the specified temperature limits.
2. For enclosures provided with a powder coating or liquid painting and intended for use in Group III applications, the user shall minimize the risk from electrostatic discharge by suitable selection and installation.
3. The maximum number of apertures, their maximum sizes and their positions are specified in the instruction manual IM.GUB.U
4. Oil-filled circuit-breakers and contactors shall not be used.
5. The content of the GUB enclosure may be placed in any arrangement provided that an area of at least 20 % (Group IIB) or 40 % (Group IIC) of each cross-sectional area remains free. Separate relief areas may be aggregated provided that each area has a minimum dimension in any direction of 12,5 mm.
6. The threaded flame path of the cover is more than required by EN 60079-1. Contact the manufacturer for information on the dimensions of the flameproof joints.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR19.0093/00.

(20) **Certificate history**

Issue 0 - 222966700 initial certificate