



# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No. : 2021312304001060

**Applicant** ROSE Systemtechnik GmbH  
**Address** Erbeweg 13-15, 32457 Porta Westfalica, Germany  
**Manufacturer** ROSE Systemtechnik GmbH  
**Address** Erbeweg 13-15, 32457 Porta Westfalica, Germany  
**Production Factory** Phoenix Mecano S.E. Asia Pte. Ltd.  
**Production Address** 53 Ubi Ave 3#04-01, Colorscan Building, Singapore 408863  
**Product** Control box  
**Model/Type** GUB\*\*\*  
**Ex marking** Ex db IIB T4/T5/T6 Gb, Ex db IIC T4/T5/T6 Gb,  
Ex tb IIIC T85°C/T100°C/T135°C Db  
**Reference Standards** GB/T3836.1-2021, GB/T3836.2-2021, GB/T3836.31-2021

**Certification mode** Type Test + Initial Factory Inspection + Post-Certification Surveillance

The product(s) is verified and certified according to CNCA-C23-01: 2019 *China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product* and CNEX-C2301-2019 *Guideline of China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product*.

See Annex for the detailed product information (3 pages)

Initial issue date: 2021-05-21

Issued date: 2023-11-27

Valid to: 2026-05-20

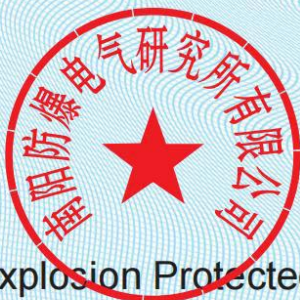
The validity of this certificate is maintained through the regular supervision of the issuing authority during the validity period.

Where any discrepancy arises between the English translation and the original Chinese version, the Chinese version shall prevail.

Director:



Nanyang Explosion Protected Electrical  
Apparatus Research Institute Co.,Ltd.



中国认可  
产品  
PRODUCT  
CNAS C208-P

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CN0000095DZ





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## (Annex)

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### Product information:

1. This certificate covers the following models:

- GUB\*\*\*

The GUB\*\*\* series consist of 12 types:

GUB 01, GUB 02, GUB 03, GUB 04, GUB 05, GUB 06: enclosures in 6 different sizes, without display window;

GUB 01W, GUB 02W, GUB 03W, GUB 04W, GUB 05W, GUB 06W: enclosures in 6 different sizes, with display window.

Ingress protection: IP66

Electrical ratings:

The electrical ratings are dependent on the built-in components and equipment, but do not exceed 1.1 kV ac/dc nominal, 415 A and 240 mm<sup>2</sup>. Actual ratings are stated on the nameplate.

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.

Thermal data:

The relation between GUB 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

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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	15	405	282	250	215	150	723	609	472	250	150
06W			0						-	-	-	-	-

\* : values have been determined without a dust layer

Ex marking: Ex db IIB T4/T5/T6 Gb, Ex db IIC T4/T5/T6 Gb,

Ex tb IIIC T85°C/T100°C/T135°C Db

The equipment is marked with Group IIB if at least 20% of each internal cross-sectional area remains free; it may be marked with Group IIC if at least 40% of each internal cross-sectional area remains free.

- Producers should organize production in accordance with the technical documents approved by the certification body.

### 2. Specific conditions of safety use:

- Ambient temperature range:

Maximum ambient temperature range (for details see table above):

GUB 01 ... GUB 06: -20°C to +110°C

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GUB 01W ...GUB 06W: -20°C to +75°C

- For enclosures provided with a powder coating, liquid painting or provided with a non-metallic nameplate and/or tagplate and intended for use in dust Group applications, the user shall minimize the risk from electrostatic discharge by suitable selection and installation.
- The threaded flame path of the cover is more than required by GB/T3836.2. Contact the manufacturer for information on the dimensions of the flameproof joints.
- See instruction for other information.

3. Certificate related report(s):

- Type test report: CQST2010C047, CQST2010C047/01

4. Certificate change information:

- 1st change on November 27, 2023 : Updated the standards for certification.

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