



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEx DEK 18.0076X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2019-11-14

Applicant: **ROSE Systemtechnik GmbH**  
Erbeweg 13 - 15  
32457 Porta Westfalica  
Germany

Equipment: **Power distribution, switchgear and control box Series GUB**

Optional accessory:

Type of Protection: **Ex db, Ex tb**

Marking: Ex db ... IIB T4, T5 or T6 Gb  
Ex db ... IIC T4, T5 or T6 Gb  
Ex tb ... IIIC T85 °C, T100 °C or T135 °C Db

Approved for issue on behalf of the IECEx  
Certification Body:

**R. Schuller**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
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**DEKRA Certification B.V.**  
Meander 1051  
6825 MJ Arnhem  
Netherlands





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Manufacturer: **ROSE Systemtechnk GmbH**  
Erbeweg 13 - 15  
32457 Porta Westfalica  
**Germany**

Additional manufacturing locations: **Phoenix Mecano (India) Pvt. Ltd.** **PM Komponenten B.V.**  
Plant - I & II: Havenstraat 100  
Pirangut Industrial Area, Post Ghotowade, 7005 AG Doetinchem  
Plot 388/389, Village Bhare, Taluka Mulshi **Netherlands**  
Disit, Pune - 412 115  
**India**

**See Annex 2 for all manufacturing locations**

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

#### STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

**IEC 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-1:2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

#### TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[NL/DEK/ExTR19.0094/00](#)

Quality Assessment Report:

[DE/EPS/QAR17.0003/16](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

Power distribution, switchgear and control assembly 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. Inside and in the walls or cover of the enclosure electrical apparatus such as terminals, switching-, control-, regulating-, measuring- and indicating devices can be mounted.

Maximum ambient temperature range -20 °C to +110 °C, for details see Annex 1.

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

For more detailed information see Annex 1.

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

1. For enclosures provided with a powder coating, liquid painting or provided with a non-metallic nameplate and/or tagplate and intended for use in Group III applications, the user shall minimize the risk from electrostatic discharge by suitable selection and installation.
2. The threaded flame path of the cover is more than required by IEC 60079-1. Contact the manufacturer for information on the dimensions of the flameproof joints.

## **Annexes:**

[222966700 Annex 1.pdf](#)

[222966700 Annex 2.pdf](#)

**Annex 1 to IECEx DEK 18.0076X**  
**Annex 1 to NL/DEK/ExTR19.0094/00**

**Description**

Power distribution, switchgear and control assembly 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. Inside and in the walls or cover of the enclosure electrical apparatus such as terminals, switching-, control-, regulating-, measuring- and indicating devices can be mounted.

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.

**Marking**

Where applicable, the equipment marking is completed by the types / levels of protection “i”, “[i]” and/or “m”.

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.

**Ambient temperature range**

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

- GUB 01 ... GUB 06: -20 °C to +110 °C
- GUB 01W ... GUB 06W: -20 °C to +75 °C

**Degree of protection**

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

**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				
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

## Annex 2 to Certificate of Conformity IECEx DEK 18.0076X

### Manufacturing locations

Rose Systemtechnik GmbH  
Erbeweg 13-15  
32457 Porta Westfalica  
Germany

Phoenix Mecano Kecsemet KFT  
Szent István krt. 24  
6000 Hungary  
Hungary

PM Komponenten N.V.  
Karrewegstraat 124  
9800 Deinze  
Belgium

PM Komponenten B.V.  
Havenstraat 100  
7005 AG Doetinchem  
The Netherlands

Phoenix Mecano S.E. Asia Pte. Ltd.  
53 Ubi Ave 3 #04-01  
Colourscan Building  
Singapore 408863

Phoenix Mecano (India) Private Limited  
Pirangut Industrial Area, Post Ghotawade  
Plot 388, Village Bhare, Taluka Mulshi  
Dist. Pune - 412115  
India

Phoenix Mecano India Pvt. Ltd – Plant III, Gat No 408, 410 & 412, Village – Urse, Taluka – Maval,  
Talegaon Urse Road, Dist. Pune – 410506, India

Mecano Components Co., Ltd/012  
No.1001, Jiaqian Road, Nanxiang, Jiading District  
Shanghai P.R.C. 201802  
China

Phoenix Mecano Inc.  
7330 Executive Way  
Frederick  
MD 21704  
USA

JKE Co., Ltd.  
34, Mieumsandan-ro, 105bone-gil, Gangseo-gu,  
Busan, Korea

Phoenix Mecano Saudi Arabia LLC, Building no 3267, king Abdul Aziz Road Unit No1, Dharan 3451,  
Dammam, Kingdom of Saudi Arabia

Rose Systemtechnik Middle East, P.O. Box 8993, Sharjah, U.A.E