



Ex Enclosures

- The standard range for Ex applications

Terminal and empty enclosures for all hazardous environments made from stainless steel, polyester and aluminium

Plan the beginning ...

... anticipate the end.



A Phoenix Mecano Company

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ROSE Ex Enclosures

- The widest choice of products



Efficient Protection

- We have chosen the right materials



Stainless steel enclosures

- top quality material for highest requirements
- more than 40 different versions
- available in standard, flange and hinged versions

Polyester enclosures

- sturdy construction for outdoor and indoor use
- standard and flange versions
- more than 50 different sizes and variations



Aluminium enclosures

- more than 40 different sizes

ROSE Ex Enclosures

Extreme climatic conditions, aggressive environment?

ROSE Ex enclosures have fulfilled the most versatile demands worldwide for years.

For more than 20 years, ROSE Ex enclosures made in stainless steel, polyester and aluminium have proved reliable Ex appliances and are being used by renowned plant contractors all over the world.



Operating under arctic conditions up to temperatures of -55°C

- unrestricted use

Aggressive chemical environment



Operating under tropical conditions up to temperatures +90°C



ROSE Ex Enclosures

- Quality and approval



ROSE Ex enclosures are in accordance to the European ATEX standards:
 EN 50014, EN 50019 as well as EN 50020.
 Trouble-free operation in the areas
 - E Ex e (increased safety) and
 - E Ex ia (intrinsic safety)

ROSE Ex Enclosures

- Assembled terminal enclosures or empty enclosure - your choice



Ex terminal enclosure with ATEX certification
- fully assembled with terminals, cable glands,
continuity plates etc.

Area of application: Increased safety

 E Ex e

Area of application: Intrinsic Safety
for sensitive measuring signals

 E Ex ia



Ex empty enclosure for custom assembly
with Component Certificate ...U

Stainless Steel Ex Enclosures

- At home in rough environments



Stainless steel Ex enclosures

The enclosure family for the highest requirements

- robust material
- safe system
- custom made dimensions from 25 pcs.

Technical Data

Explosion protection:

Ex II 2 G / 2 D

EEx e II T6 (increased safety)

EEx ia IIC T6 (intrinsic safety)

EEx e(ia) IIC T6 (mixed fitting)

Temperature classes T5 and T4 on request

Certificate:

Empty enclosure: PTB 00 ATEX 1101U

Terminal enclosure: PTB 00 ATEX 1052

Material:

Stainless steel 1.25 mm or 1.5 mm 1.4404 / 316L

Surface:

grinded, grain 240

Ingress protection:

IP 66, EN 60529

Impact resistance:

>7 Joule, EN 50014

Temperature range of application acc. EN:

-20° to +40°C (corresponds T6 = 85°C surface temperature)

-20° to +55°C (corresponds T5 = 100°C surface temperature)

-20° to +95°C (corresponds T4 = 135°C surface temperature)

-55°C with special marking on request



Stainless Steel Ex Enclosures

- The enclosure range

Programme range

Type				Dimensions
Ex e	Ex ia	empty enclosure	W x L x H (mm)	
35.10 10 06	36.10 10 06	34.10 10 06	100 x 100 x 61	
35.15 10 06	36.15 10 06	34.15 10 06	120 x 100 x 61	
35.15 15 08	36.15 15 08	34.15 15 08	150 x 150 x 81	
35.20 10 06	36.20 10 06	34.20 10 06	200 x 100 x 61	
35.20 20 08	36.20 20 08	34.20 20 08	200 x 200 x 81	
35.20 20 12	36.20 20 12	34.20 20 12	200 x 200 x 121	
35.30 15 08	36.30 15 08	34.30 15 08	300 x 150 x 81	
35.30 20 08	36.30 20 08	34.30 20 08	300 x 200 x 81	
35.30 20 12	36.30 20 12	34.30 20 12	300 x 200 x 121	
35.30 30 12	36.30 30 12	34.30 30 12	300 x 300 x 121	
35.30 30 16	36.30 30 16	34.30 30 16	300 x 300 x 161	
35.38 38 16	36.38 38 16	34.38 38 16	380 x 380 x 161	
35.40 15 08	36.40 15 08	34.40 15 08	400 x 150 x 81	
35.40 20 12	36.40 20 12	34.40 20 12	400 x 200 x 121	
35.40 30 16	36.40 30 16	34.40 30 16	400 x 300 x 161	
35.50 30 16	36.50 30 16	34.50 30 16	500 x 300 x 161	
35.50 40 16	36.50 40 16	34.50 40 16	500 x 400 x 161	
35.60 20 12	36.60 20 12	34.60 20 12	600 x 200 x 121	
35.99 99 99	36.99 99 99	34.99 99 99	special dimensions	

Stainless Steel Ex Flange Enclosures

- worldwide use



Stainless steel Ex flange enclosures

Stainless steel flange enclosures for applications in harsh environments in an approved material. Industrial execution with 1 and/or 4 flange openings. Ideal operating conditions for all electrical components - easier entrance to interior by large flange opening area.

- Custom made dimensions from 25 pcs.

Technical Data

Explosion protection:

Ex II 2 G / 2 D

EEx e II T6 (increased safety)

EEx ia IIC T6 (intrinsic safety)

EEx e(ia) IIC T6 (mixed fitting)

Temperature classes T5 and T4 on request

Certificates:

Empty enclosure with hinged lid: PTB 00 ATEX 1101U

Terminal enclosure: PTB 00 ATEX 1052

Material:

Stainless steel 1.5 mm, 1.4404/316L

Flange plate: 3.0 mm

Surface:

grinded, grain 240

Ingress protection:

IP 66, EN 60529

Impact resistance:

>7 Joule, EN 50014

Temperature range of application acc. EN:

-20° to +40°C (corresponds T6 = 85°C surface temperature)

-20° to +55°C (corresponds T5 = 100°C surface temperature)

-20° to +95°C (corresponds T4 = 135°C surface temperature)

-55°C with special marking on request



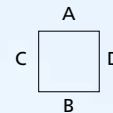
Stainless Steel Ex Flange Enclosures

Programme range

Ex e	Ex ia	empty enclosure	dimensions in mm W x L x H	flange version No. of flange	side	flange opening area dimension in mm
35.03 33 01	36.03 33 01	34.03 33 01	306 x 306 x 217	1	B	140 x 230
35.03 43 01	36.03 43 01	34.03 43 01	458 x 382 x 217	1	B	140 x 340
35.03 75 04	36.03 75 04	34.03 75 04	762 x 508 x 217	4	A,B,C,D	A/B: 140 x 590; C/D: 140 x 340
35.03 86 04*	36.03 86 04*	34.03 86 04*	860 x 640 x 217	4	A,B,C,D	A/B: 140 x 590; C/D: 140 x 460
35.03 97 04*	36.03 97 04*	34.03 97 04*	980 x 740 x 217	4	A,B,C,D	A/B: 140 x 590; C/D: 140 x 460
35.03 99 99	36.03 99 99	34.03 99 99	special dimension			on request

* on request

Accessory: mounting plate sheet steel, galvanized



Stainless Steel Ex Cabinets

- Solutions for aggressive environments




Stainless steel Ex cabinets

Enclosures with hinged lid and attachment for DIN rails.

- robust material
- safe system
- custom made dimensions from 25 pcs.

Technical Data

Explosion protection:

 II 2 G / 2 D

EEx e II T6 (increased safety)

EEx ia IIC T6 (intrinsic safety)

EEx e(ia) IIC T6 (mixed fitting)

Temperature classes T5 and T4 on request

Certificates:

Empty enclosure with hinged lid: PTB 00 ATEX 1101U

Terminal enclosure: PTB 00 ATEX 1052

Material:

Stainless steel 1.25 mm or 1.5 mm, 1.4301/304; 1.4404/316L on request

Surface:

grinded, grain 240

Ingress protection:

IP 66, EN 60529

Impact resistance:

>7 Joule, EN 50014

Temperature range of application acc. EN:

-20° to +40°C (corresponds T6 = 85°C surface temperature)

-20° to +55°C (corresponds T5 = 100°C surface temperature)

-20° to +95°C (corresponds T4 = 135°C surface temperature)

-55°C with special marking on request



Stainless Steel Ex Cabinets

- The enclosure range

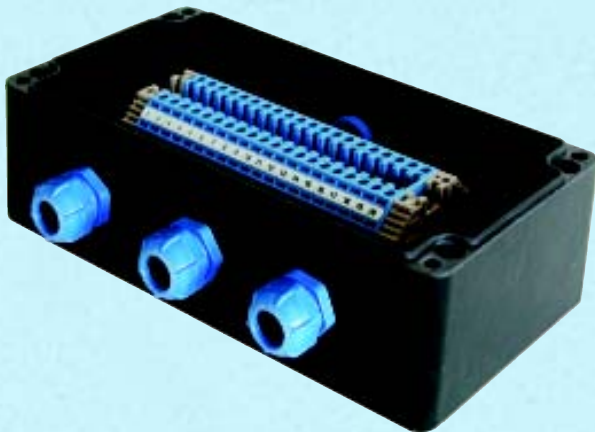
Programme range

Ex e	Ex ia	empty cabinets	dimensions in mm W x L x H
35.00 22 09	36.00 22 09	34.00 22 09	200 x 250 x 97
35.00 22 15	36.00 22 15	34.00 22 15	200 x 250 x 157
35.00 33 16	36.00 33 16	34.00 33 16	300 x 300 x 167
35.00 32 09	36.00 32 09	34.00 32 09	350 x 250 x 97
35.00 44 16	36.00 44 16	34.00 44 16	380 x 380 x 167
35.00 44 21	36.00 44 21	34.00 44 21	380 x 380 x 217
35.00 53 16	36.00 53 16	34.00 53 16	500 x 300 x 167
35.00 63 16	36.00 63 16	34.00 63 16	600 x 300 x 167
35.00 64 21	36.00 64 21	34.00 64 21	600 x 380 x 217
35.00 99 99	36.00 99 99	34.00 99 99	special dimensions



Polyester Ex Enclosures

- A multitude of applications



Polyester Ex Enclosure

The robust range for all Ex components. More than 60 variations in more than 20 different sizes. Worldwide use in all climatic environments.

Available as

- full assembled enclosures with terminal blocks, cable glands and accessories
- empty enclosures, component certified

Technical Data

Explosion protection:

Ex II 2 G / 2 D

EEx e II T6 (increased safety)

EEx ia IIC T6 (intrinsic safety)

EEx e(ia) IIC T6 (mixed fittings)

Temperature class T5 on request

Certificates:

Empty enclosure: PTB 01 ATEX 1061U

Terminal enclosure: PTB 00 ATEX 1002

Material:

Glassfibre-reinforced duroplastic Polyester, graphite added

Colour:

similar to RAL 9011, black

Ingress protection:

IP 66, EN 60529

Impact resistance:

>7 Joule, EN 50014

Flammability:

self-extinguishing, UL 94/V0

Surface resistance:

<10⁹ Ohm, EN 50014

Water absorption:

max. 0.7 %, ASTM D570

Toxicity:

halogenfree

Temperature range or application acc. EN:

-20° to +40°C (corresponds T6 = 85°C surface temperature)

-20° to +55°C (corresponds T5 = 100°C surface temperature)

-55°C with special marking on request



Polyester Ex Enclosures

- multitude of ideas

Programme range

Type			dimensions
Ex e	Ex ia	empty enclosure	W x L x H (mm)
06.08 08 06	16.08 08 06	26.08 08 06	75 x 80 x 55
06.08 08 08	16.08 08 08	26.08 08 08	75 x 80 x 75
06.08 11 06	16.08 11 06	26.08 11 06	75 x 110 x 55
06.08 11 08	16.08 11 08	26.08 11 08	75 x 110 x 75
06.08 16 06	16.08 16 06	26.08 16 06	75 x 160 x 55
06.08 16 08	16.08 16 08	26.08 16 08	75 x 160 x 75
06.08 19 06	16.08 19 06	16.08 19 06	75 x 190 x 55
06.08 19 08	16.08 19 08	26.08 19 08	75 x 190 x 75
06.08 23 06	16.08 23 06	16.08 23 06	75 x 230 x 55
06.08 23 08	16.08 23 08	26.08 23 08	75 x 230 x 75
06.12 12 09	16.12 12 09	26.12 12 09	120 x 122 x 90
06.12 22 09	16.12 22 09	26.12 22 09	120 x 220 x 90
06.16 16 09	16.16 16 09	26.16 16 09	160 x 160 x 90
06.16 26 09	16.16 26 09	26.16 26 09	160 x 260 x 90
06.16 36 09	16.16 36 09	26.16 36 09	160 x 360 x 90
06.16 56 09	16.16 56 09	26.16 56 09	160 x 560 x 90
06.25 26 12	16.25 26 12	16.25 26 12	250 x 255 x 120
06.25 26 16	16.25 26 16	26.25 26 16	250 x 255 x 160
06.25 40 12	16.25 40 12	26.25 40 12	250 x 400 x 120
06.25 40 16	16.25 40 16	26.25 40 16	250 x 400 x 160
06.25 60 12	16.25 60 12	26.25 60 12	250 x 600 x 120
06.36 36 09	16.36 36 09	26.36 36 09	360 x 360 x 90
06.41 40 12	16.41 40 12	26.41 40 12	405 x 400 x 120

Polyester Ex Flange Enclosures

- Robust material



Polyester Ex Flange Enclosure


The robust range with flange plates for all Ex component parts. 9 variations in 3 sizes. Worldwide use in all climatic environments.

Available as

- full assembled enclosures with terminal blocks, cable glands and accessories
- empty enclosures, component certified

Technical Data

Explosion protection:

 II 2 G / 2 D

EEx e II T6 (increased safety)

EEx ia IIC T6 (intrinsic safety)

EEx e(ia) IIC T6 (mixed fittings)

Temperature class T5 on request

Certificates:

Empty enclosure: PTB 01 ATEX 1061U

Terminal enclosure: PTB 00 ATEX 1002

Material:

Glassfibre-reinforced duroplastic Polyester, graphite added

Colour:

similar to RAL 9011, black

Ingress protection:

IP 66, EN 60529

Impact resistance:

>7 Joule, EN 50014

Flammability:

self-extinguishing, UL 94/V0

Surface resistance:

<10⁹ Ohm, EN 50014

Water absorption:

max. 0.7 %, ASTM D570

Toxicity:

halogenfree

Temperature range or application acc. EN:

-20° to +40°C (corresponds T6 = 85°C surface temperature)

-20° to +55°C (corresponds T5 = 100°C surface temperature)

-55°C with special marking on request



Polyester Ex Flange Enclosures

- Individual fitting

Programme range

Type			Dimensions
Ex e	Ex ia	empty enclosure	W x L x H (mm)
06.14 01 00	16.14 01 00	26.14 01 00	170 x 270 x 135
06.14 02 00	16.14 02 00	26.14 02 00	270 x 270 x 135
06.14 03 00	16.14 03 00	26.14 03 00	270 x 540 x 135



Polyester Ex Oktabox

- Safety first



Polyester Ex Oktabox


The robust range for all Ex component parts. 9 variations in 3 sizes. Worldwide use in all climatic environments.

Available as

- full assembled enclosures with terminal blocks, cable glands and accessories
- empty enclosures, component certified

Technical Data

Explosion protection:

 II 2 G / 2 D

EEx e II T6 (increased safety)

EEx ia IIC T6 (intrinsic safety)

EEx e(ia) IIC T6 (mixed fitting)

Temperature class T5 on request

Certificates:

Empty enclosure: PTB 01 ATEX 1061U

Terminal enclosure: PTB 00 ATEX 1002

Material:

Glassfibre-reinforced duroplastic polyester, graphite added

Colour:

similar to RAL 9011, black

Ingress protection:

IP 66, EN 60529

Impact resistance:

>7 Joule, EN 50014

Flammability:

self-extinguishing, UL 94/V0

Surface resistance:

<10⁹ Ohm, EN 50014

Water absorption:

max. 0.7 %, ASTM D570

Toxicity:

halogenfree

Weather resistance:

UV-stabilized

Temperature range of application acc. EN:

-20° to +40°C (corresponds T6 = 85°C surface temperature)

-20° to +55°C (corresponds T5 = 100°C surface temperature)

-55°C with special marking on request



Polyester Ex Oktabox

- The best for Offshore technology

Programme range

Type			Dimensions
Ex e	Ex ia	empty enclosure	W x L x H (mm)
06.88 01 00	16.88 01 00	26.88 01 00	80 x 80 x 70
06.88 02 00	16.88 02 00	26.88 02 00	120 x 120 x 75
06.88 03 00	16.88 03 00	26.88 03 00	160 x 160 x 93

Polyester Ex cabinets

- Polyglas / Mini-Polyglas



Polyester Ex enclosure with hinged lid


Efficient protection and easy handling of Ex component fittings

Available as

- full assembled enclosure with terminal blocks, cable glands and accessories, or as
- empty enclosure, component certified

Technical Data

Explosion protection:

 II 2 G / 2 D

EEx e II T6 (increased safety)

EEx ia IIC T6 (intrinsic safety)

EEx e(ia) IIC T6 (mixed fittings)

Temperature class T5 on request

Certificates:

Empty enclosure: PTB 01 ATEX 1061U

Terminal enclosure: PTB 00 ATEX 1002

Material:

Glassfibre-reinforced duroplastic Polyester, graphite added

Colour:

similar to RAL 9011, black

Ingress protection:

IP 66, EN 60529

Impact resistance:

>7 Joule, EN 50014

Flammability:

self-extinguishing, UL 94/V0

Surface resistance:

<10⁹ Ohm, EN 50014

Water absorption:

max. 0.7 %, ASTM D570

Toxicity:

halogenfree

Temperature range or application acc. EN:

-20° to +40°C (corresponds T6 = 85°C surface temperature)

-20° to +55°C (corresponds T5 = 100°C surface temperature)

-55°C with special marking on request



Polyester Ex cabinets

- Polyglas / Mini-Polyglas

Programme range

Type	Dimensions in mm		
Polyester cabinets "Mini-Polyglas"	W x L x H		
06.20 20 00	16.20 20 00	26.20 20 00	200 x 200 x 170
06.20 30 00	16.20 30 00	26.20 30 00	200 x 300 x 170
Polyester cabinets "Polyglas"			
06.30 40 00	16.30 40 00	26.30 40 00	300 x 400 x 200
06.40 60 00	16.40 60 00	26.40 60 00	400 x 600 x 250



Aluminium Ex Enclosures

- A multitude of applications




Aluminium Ex Enclosures

The range includes

- full assembled enclosures with terminal blocks, cable glands and accessories
- empty enclosures, component certified

Technical Data

Explosion protection:

 II 2 G / 2 D

EEx e II T6 (increased safety)

EEx ia IIC T6 (intrinsic safety)

EEx e(ia) IIC T6 (mixed fitting)

Temperature classes T5 and T4 on request

Certificates:

Empty enclosure: PTB 98 ATEX 3101U

Terminal enclosure: PTB 00 ATEX 1063

Material:

Aluminium diecast AISI 12

Painting:

powder coating

Colour:

RAL 7001, grey

Ingress protection:

IP 66, EN 60529

Impact resistance:

>7 Joule, EN 50014

Temperature range of application acc. EN:

-20° to +40°C (corresponds T6 = 85°C surface temperature)

-20° to +55°C (corresponds T5 = 100°C surface temperature)

-20° to +95°C (corresponds T4 = 135°C surface temperature)

-55°C with special marking on request



Aluminium Ex Enclosures

- The correct size

Programme range

Type			Dimensions
Ex e	Ex ia	Empty enclosure	W x L x H (mm) .
05.06 06 03	15.06 06 03	25.06 06 03	64 x 58 x 34
05.06 10 03	15.06 10 03	25.06 10 03	64 x 98 x 34
05.06 15 03	15.06 15 03	25.06 15 03	64 x 150 x 34
05.08 08 06	15.08 08 06	25.08 08 06	80 x 75 x 57
05.08 13 06	15.08 13 06	25.08 13 06	80 x 125 x 57
05.08 18 06	15.08 18 06	25.08 18 06	80 x 175 x 57
05.08 25 05	15.08 25 05	25.08 25 05	80 x 250 x 52
05.10 10 08	15.10 10 08	25.10 10 08	100 x 100 x 80
05.10 16 08	15.10 16 08	25.10 16 08	100 x 160 x 80
05.10 20 08	15.10 20 08	25.10 20 08	100 x 200 x 80
05.12 12 08	15.12 12 08	25.12 12 08	120 x 122 x 80
05.12 12 09	15.12 12 09	25.12 12 09	120 x 122 x 90
05.12 22 08	15.12 22 08	25.12 22 08	120 x 220 x 80
05.12 22 09	15.12 22 09	25.12 22 09	120 x 220 x 90
05.12 22 12	15.12 22 12	25.12 22 12	120 x 220 x 120
05.12 36 08	15.12 36 08	25.12 36 08	120 x 360 x 80
05.14 14 09	15.14 14 09	25.14 14 09	140 x 140 x 90
05.14 20 09	15.14 20 09	25.14 20 09	140 x 200 x 90
05.16 16 09	15.16 16 09	25.16 16 09	160 x 160 x 90
05.16 26 09	15.16 26 09	25.16 26 09	160 x 260 x 90
05.16 36 09	15.16 36 09	25.16 36 09	160 x 360 x 90
05.16 56 09	15.16 56 09	25.16 56 09	160 x 560 x 90
05.18 18 10	15.18 18 10	25.18 18 10	180 x 180 x 100
05.18 28 10	15.18 28 10	25.18 28 10	180 x 280 x 100
05.23 10 11	15.23 10 11	25.23 10 11	100 x 230 x 110
05.23 20 11	15.23 20 11	25.23 20 11	230 x 200 x 110
05.23 20 18	15.23 20 18	25.23 20 18	230 x 200 x 180
05.23 28 11	15.23 28 11	25.23 28 11	230 x 280 x 110
05.23 33 11	15.23 33 11	25.23 33 11	230 x 330 x 110
05.23 33 18	15.23 33 18	25.23 33 18	230 x 330 x 180
05.23 40 11	15.23 40 11	25.23 40 11	230 x 400 x 110
05.23 40 23	15.23 40 23	25.23 40 23	230 x 400 x 224
05.23 60 11	15.23 60 11	25.23 60 11	230 x 600 x 110
05.31 40 11	15.31 40 11	25.31 40 11	310 x 400 x 110
05.31 40 14	15.31 40 14	25.31 40 14	310 x 400 x 140
05.31 40 18	15.31 40 18	25.31 40 18	310 x 400 x 180
05.31 40 23	15.31 40 23	25.31 40 23	310 x 400 x 226
05.31 60 11	15.31 60 11	25.31 60 11	310 x 600 x 110
05.31 60 18	15.31 60 18	25.31 60 18	310 x 600 x 180
05.60 60 20	15.60 60 20	25.60 60 20	600 x 600 x 200

Beluga Ex handheld enclosures

- ergonomic design




Beluga Ex

Hand held empty enclosure for applications in hazardous environments, in an approved material

Technical Data

Explosion protection:

 II 2 G / EEx e II

Certification:

Empty enclosure: PTB02 ATEX 1076U

Material:

Polyamide 12

Surface resistance:

<10⁹ Ohm to EN 50014

Flammability:

HB / UL 94

Colour:

Black, similar RAL 9005

Ingress protection:

IP 65, EN 60529

Impact resistance:

>7 Joule, EN 50014

Temperature range:

-20°C to +60°C



ROSE Complete Ex Solutions

- Plan the beginning ... anticipate the end



ROSE offers you your complete Ex device within ATEX approved fittings:

- terminal assemblies
- cable glands
- EMC versions

Challenge us!

We're looking forward to your assignment

This brochure just gives a little idea of the multitude of possibilities that ROSE Ex enclosure systems offer.

Upon request we will send you detailed data sheets on the products described in this brochure - or ask for our special Ex catalogue that contains detailed information on the Ex subject in general as well as on all our Ex enclosures.

Online: www.rose-ex-enclosures.com

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