

Assembly and operating manual

PRIOELEC EK/TUEK

Electrical terminal box

Electrical terminal box

EK31-xxx-xxx-08/10

EK91-xxx-xxx-08/10

Tunnel electrical terminal box

TUEK91-xxx-xxx-10

Dear customer,

Thank you for purchasing a high-quality PRIORIT product.

To ensure we can guarantee that the entire system will function free from errors, please carefully observe the following operating manual.

Failure to observe this manual will void any warranty guarantees.

We expressly reserve the right to make technical changes for the purpose of improving our product, or as required by changes to the law – including without any separate notification.

This operating / assembly manual may not be reprinted or duplicated in whole or in part without the written approval of PRIORIT AG.

PRIORIT AG

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Contents

Contents	3
Important notes	4
Information in this manual	5
General safety information	5
Building material/Surface.....	6
Included in delivery.....	8
Designation of the elements.....	8
Assembly manual – EC terminal boxes.....	9
Assembly manual TUEK terminal boxes.....	12
Included in delivery.....	12
Designation of the elements.....	12
Assembly manual	13
Behaviour after a fire	14
General.....	14

Important notes



When storing the product, do not put loads on the corners and cover the storage area with soft material beforehand, e.g. with a packing blanket!



Transport and assemble the enclosure with at least 2 persons!



When assembling overhead, it is essential to ensure that the individual parts are secured to avoid the risk of accidents caused by falling parts!



Information in this manual

- This manual is not a manufacturer's declaration, nor is it considered a usability certificate under building approval regulations.
- The information in this manual applies to a wide range of different products. Binding technical information, and information related to technical certifications, is only provided on the proof of usability under building approval law, the manufacturers' declarations submitted by the constructing company, and our order confirmation, which is considered part of the purchasing agreement upon signing by our contractual partner.

General safety information

- This operating / assembly manual must always be stored at the location where the product will be used.
- Legally required safety information must be posted in an area visible to users.
- All safety and hazard notices and the type plate must be kept in legible condition.
- Only use the product in proper working order.
- Observe the relevant VDE regulations.
- Observe the requirements of the fire authorities.
- Observe the general building law and the building regulations.
- Observe the accident prevention guidelines and the workplace directive.
- Instructions given by the technical supervisory service must be followed.
- Only use products that are in proper working order.
- Ensure that the required safety checks are carried out by personnel authorised by us.
- Observe the technical information in our catalogue or data sheet for the respective product.
- Furthermore, please note that depending on the placement of the installed elements, "heat pockets" can form, therefore ensure that the installations are distributed as evenly as possible; if necessary, this should be checked by means of a control measurement in the interior.
- Unauthorised persons must not be allowed access to the terminal boxes.
- The caps of the terminal boxes must be kept closed during operation.
- Improper installation may impair the protective function.
- Observe all instructions in these operating and maintenance instructions.
- Screw connections to the structure may only be made with approved, suitable screws/dowels.
- The suitability of the screws/dowels must be checked depending on the building.
- The enclosures must not be glued, painted or otherwise coated.
- The enclosures must not be damaged on the body (holes, screws).

- The locking systems must not be changed or replaced
- Observe all instructions in these operating and maintenance instructions.
- It would go beyond the scope of this document to list all valid regulations and directives. Therefore, always check whether your installation complies with the applicable regulations.

Intended use

- The product described in these operating/assembly instructions is manufactured in accordance with the state of the art and the recognised safety regulations.
- They may only be:
 - used as intended and
 - used when they are safe and in good working order.
- Any other use is not deemed proper use. PRIORIT is not liable for the resulting damage and consequential damage.

Functional test, safety check, care and maintenance

- Commonly available, mild household cleaners can be used for external cleaning of the product.
- The product must be protected against water, moisture penetration, or water spray.
- If safety-relevant damage is detected, they must be repaired with original parts before further use.

Building material/Surface

- Building material incl. surface coating A2-s1, dO: not flammable
- Building material incl. surface with high chemical resistance, mechanical strength and stability.

Warranty, transfer declaration

In order to ensure the optimal function of our products, the assembly instructions must always be observed.

PRIORIT's warranty applies to the delivered products.

Any modifications or changes to the design are permitted only following prior consultation with PRIORIT; otherwise the approval/warranty will be null and void.

The installer/setup technician must provide a guarantee for all assembly work.

Any warranty or liability claims for personal injury or property damage are excluded if they were caused by one or more of the following:

- The product is not used according to its intended purpose.
- Improper assembly, commissioning, operation, and maintenance.
- Failure to observe the instructions on transportation, storage, operation, and assembly.
- Unauthorised structural modifications to the product.
- Improper repairs.
- Catastrophes caused by third parties or force majeure.

Intellectual property rights

In order to protect innovations and the design, utility model specifications have been submitted to the German Patent Office.

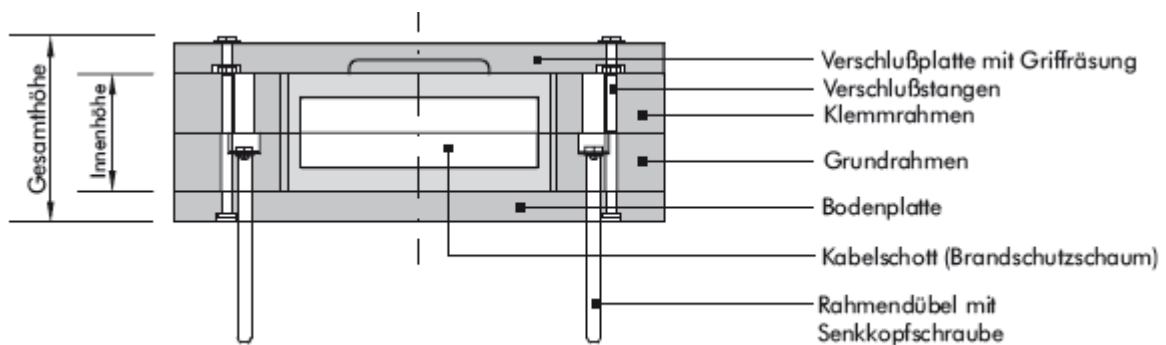
Included in delivery

1x electrical terminal box

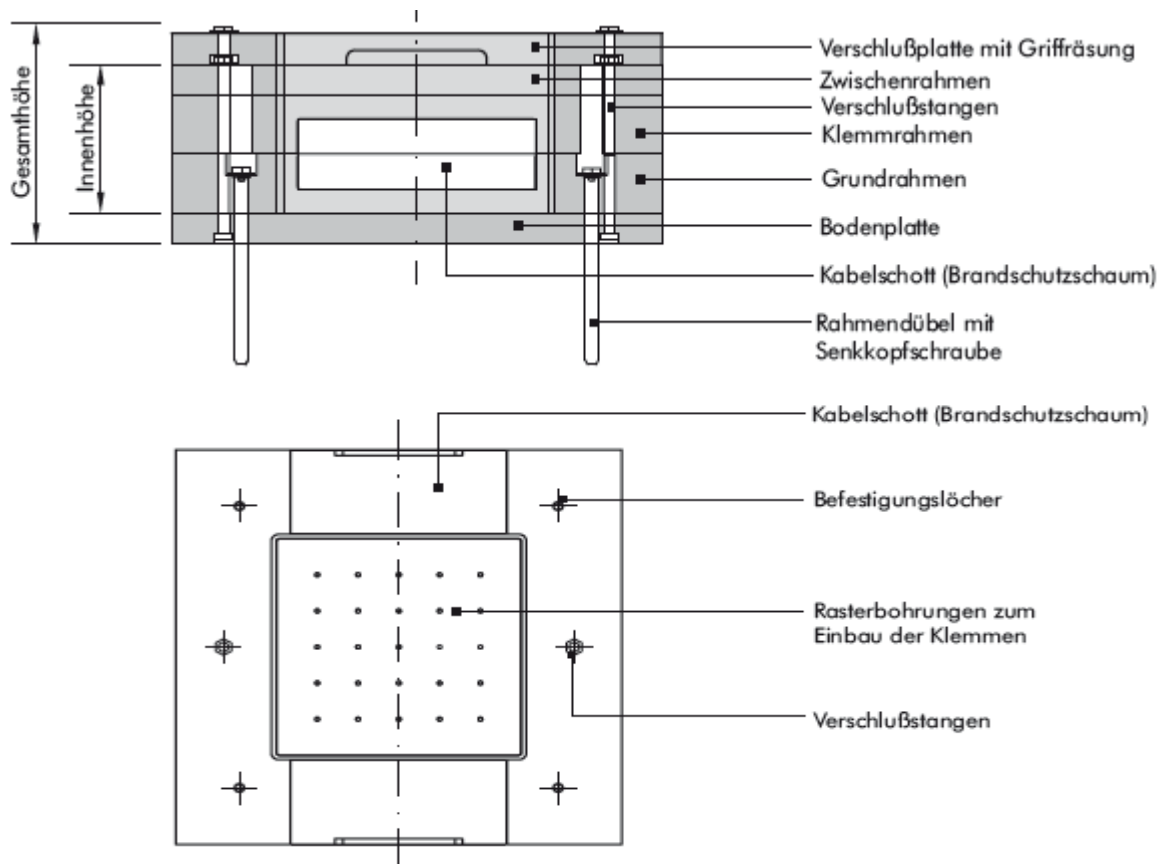
1x fastening material for wall (4 frame dowels with countersunk screws)

Designation of the elements

EK31-xxx-xxx-08 or EK91-xxx-xxx-08

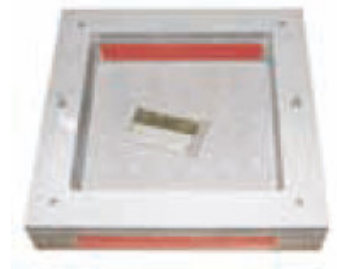


EK31-xxx-xxx-10 or EK91-xxx-xxx-10

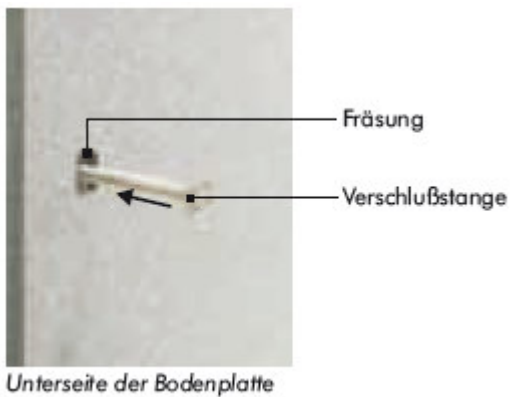


Assembly manual – EC terminal boxes

1. Unscrew the locking plate and check the accessories for completeness!
(4 frame dowels with countersunk screws)
All individual panels are to be removed except for the base plate.



2. Align the base plate with the wall.
Mark the fastening points through the holes.
Drill holes at least 80 mm deep into the wall using a 10 mm drill bit.
Blow out the drill dust.
Insert locking rods into the milled holes at the bottom of the base plate.



3. Mount the base frame over the locking rods on the base plate.

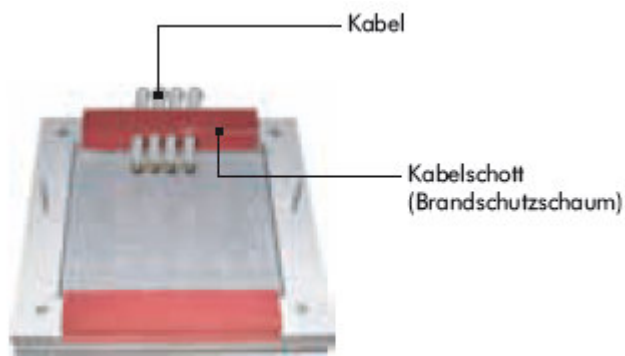


4. Drive the frame dowel into the wall through the holes in the base frame and the base plate as far as it will go.
Screw in and tighten the countersunk screws.

5. Clamping and intermediate frame* via the locking rod
Assemble and insert fire protection foam.

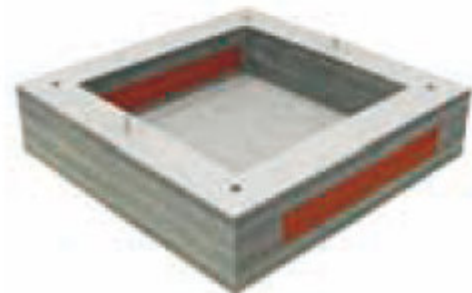
*Intermediate frame only available for terminal box with 100 mm height.

Cable entry:



The connecting cables must be passed through, evenly distributed, between the two fire protection foam parts.

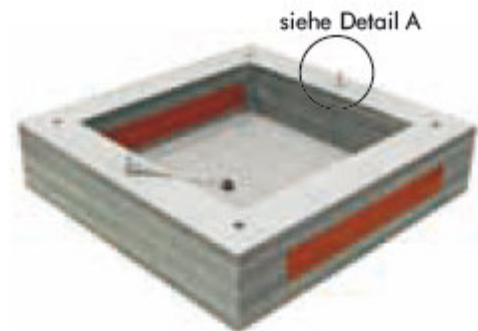
See drawing next page!



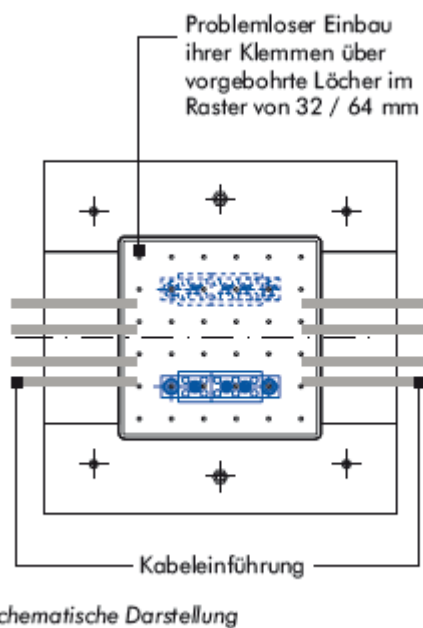
- Place the washers and screw the hexagon nuts onto the locking rod.
Tighten with a spanner (width across flats SW13).



Detail A



- Slide on the locking plate. Apply washers
And screw the safety nuts onto the locking rod.
Tighten with a spanner (width across flats SW13).



Detail B

IP protection

For a higher degree of protection, the cable bulkhead, as well as the routed cables, must be appropriately sealed all around with silicone!

Assembly manual TUEK terminal boxes

Included in delivery

1x electrical terminal box stainless steel with inner enclosure

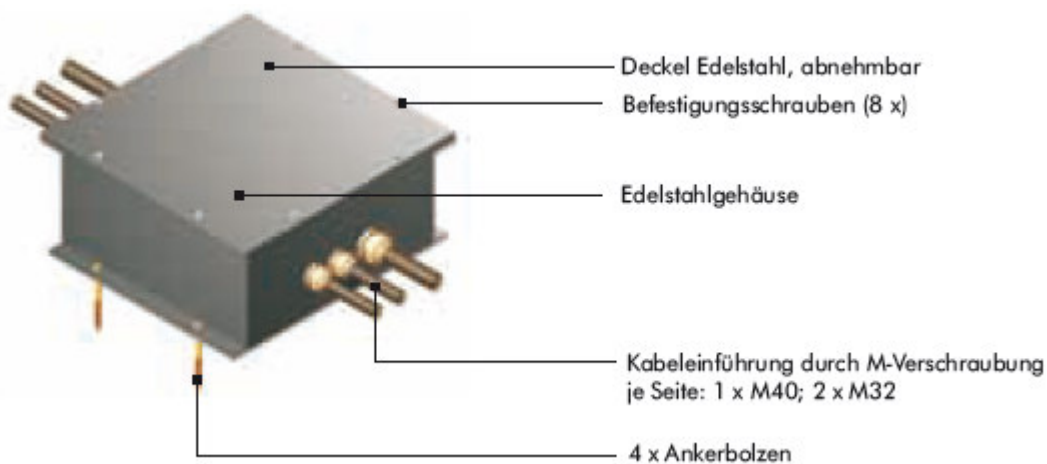
1x fastening material for wall or ceiling (4 anchor bolts)

TUEK91-020-020-10: Cable gland for 2 x M40 and 4 x M32 enclosed

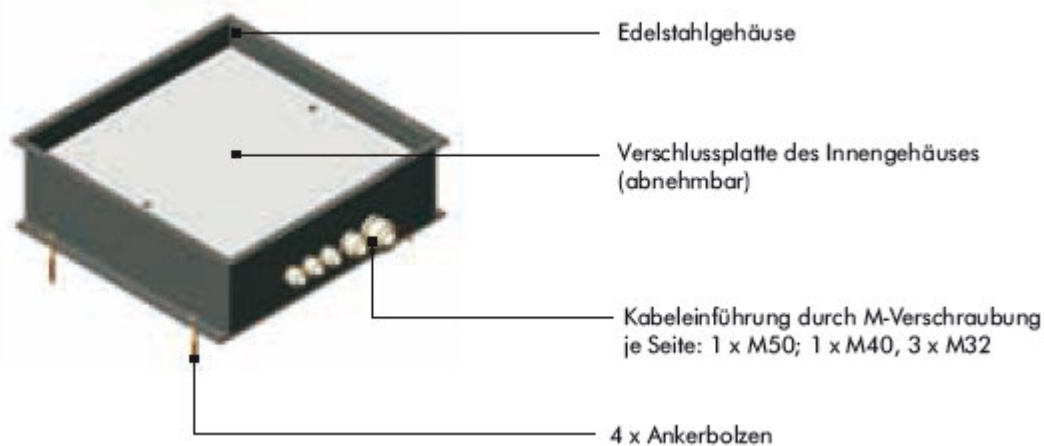
TUEK91-040-040-10: Cable gland for 2 x M40 and 4 x M32 and
blind cover for 2 x M50 and 2 x M32 enclosed

Designation of the elements

TUEK91-020-020-10, closed



TUEK91-040-040-10, opened

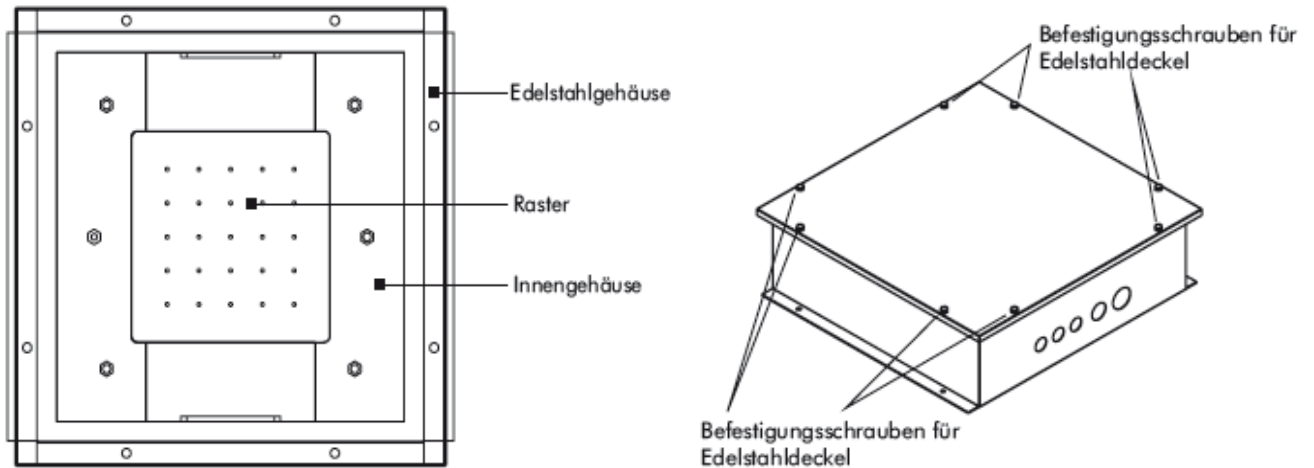


Assembly and fitting min.



Assembly manual

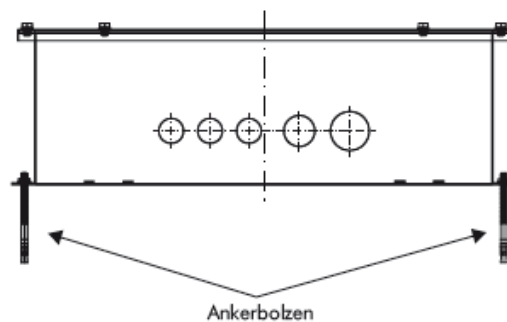
1. Loosen the stainless steel cover via the 8 fastening screws and remove it.



2. Loosen the locking plate of the inner housing by the 2 screws and remove it.



3. Mounting on the wall. Align the terminal box on the wall.
Mark the fastening points through the holes. Drill holes at least 80 mm deep into the wall with a 10 mm drill bit.
Blow out the drill dust and fix the terminal box with the enclosed fastening material.



4. For equipment and cable entry, see Terminal box assembly from page 10!
The necessary connection cables are to be led through the existing M glands in the stainless steel enclosure and the cable bulkhead.
5. Close the inner enclosure again and fasten the stainless steel lid.

Behaviour after a fire

In the event of a fire, the enclosures may only be opened after a period of at least 6 times the duration of the fire. Depending on the duration of the fire, an ignitable vapour-air mixture may have developed inside the enclosures.

Before opening the enclosures, they must be de-energised DIN VDE 0100 part 460 and DIN VDE 0100 part 537.

Furthermore, the enclosures must be secured against direct contact by means of barriers and labelling. DIN VDE 0100-410 and DIN VDE 0680.

Before opening the enclosures, remove all possible sources of ignition within a radius of at least 10 m around the enclosures.

Only use non-sparking tools when opening the enclosures.

General

We expressly reserve the right to make technical changes for the purpose of improving the enclosures, or as required by changes to the law – including without any separate notification.