

Fire Brigade Key Safe FSK700-2 / FSK700-2SX

User Manual

Description

Installation - Connection – Commissioning - Maintenance

VdS Approval: G 199055

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Safety Instructions

Prior to installing, operating, or providing maintenance to the products described herein, the respective chapters of this manual must strictly be read, and especially the safety information on page 7 and onwards in chapter 1.6 "Important advice for the operator and specialist installer" must be implicitly observed and followed.

Furthermore, the pictographs on page 7 in chapter 1.3: "Types of signs" are highly important – the many passages in this manual marked by these pictographs contain warnings of dangers that can arise from inappropriate usage of the product, as well as other valuable advice.

Described in this manual is the range of functions of the Fire Brigade Key Safes FSK700-2 and FSK700-2SX (combinedly termed "Series FSK700") with Connection Board APL-4 (version number PN60046V2-H005) and Door Protection Board BOHR-4 (version number PN60047V1-H002). Outer dimensions are applicable from production number 08/06806 onwards. The functionality of units with a different production number can differ from the description in this manual in some points.

1 Introduction

1.1 General

Fire Brigade Key Safes serve for the theft-proof, copy-protected safekeeping of master keys, allowing the Fire Brigade to enter a building swiftly and without use of force in the event of fire.

The Fire Brigade Key Safe is installed in the entry area of the respective site. Upon alarm activation of the fire detection system, the outer door is unlocked remotely by the fire brigade, granting access to the inner door of the Key Safe.

1.2 Description of the Series FSK700 Key Safe

Fire Brigade Key Safes FSK700-2 and FSK700-2SX (combinedly termed "Series FSK700"), as manufactured by MEP-Gefahrenmeldetechnik GmbH (abbreviated "MEP" hereafter), are distinguished by application of solid, high-quality materials, as well as intelligent details in design, achieving high security against unauthorised taking of master keys. Furthermore, master keys can be secured by integrating the electric surveillance devices of the Key Safe in a burglar alarm system.



Fig. 1: Series FSK700 Fire Brigade Key Safe – front view

Series FSK700 consists of

- ◆ Key Safe **FSK700-2** (MEP Article No. 265740), in which **one master key** can be kept,
- ◆ Key Safe **FSK700-2SX** (MEP Article No. 265742), of which the basic version can keep up to two master keys, and can be upgraded with two Locking Cylinder Mounting Brackets to keep a total of **four master keys**,
- ◆ a range of accessory parts, described in chapter 1.9: "Product overview", from page 9 onwards.



Fig. 2: *Series FSK700 Fire Brigade Key Safe*
 On the left: *FSK700-2 with open outer and inner doors, master key inserted, inner door fitted with a double-bit variable lock*
 On the right: *FSK700-2SX with 4 master keys, open outer and inner doors, inner door fitted with a lock for a locking half cylinder*

1.2.1 Main features of the Series FSK700 Key Safe

The Series FSK700 Key Safe has been **tested** and **certified** (Certification No. **G 199055**) by **VdS Schadenverhütung GmbH** (VdS). In combination with a VdS-certified Key Safe controlling and monitoring device, it can be employed together with most commercially available 12V or 24V fire detection and burglar alarm systems.

The Series FSK700 Key Safe conforms to **DIN 14675 Appendix C – Class 3** (FSD 3, high risk).

Up to **four master keys** can be stored inside a Fire Brigade Key Safe, thus meeting even complex organisational requirements.

Due to **intelligent details in design** – for instance, protected outer door hinges – high security against unauthorised opening is achieved.

The self-adjusting magnetic closure device automatically assumes the optimal position – therefore, the **closure device** is able to function at the **highest precision level**, even during **long-time operation** under unfavourable temperatures or environmental conditions.

To guarantee high **corrosion resistance** and **mechanical stability**, all vital mechanical parts are made from stainless steel.

Installation of the Key Safe is **easy and smooth** due to the Flush Mounting Frame introduced many years ago in Germany by MEP.

An **acoustic warning signal** will sound from the Key Safe if not all master keys have been inserted correctly.

For application of **different locking mechanisms**, such as double-bit variable locks or locking half cylinders, suitable **inner doors** are available.

To assure unhindered opening of the Key Safe at **low outside temperatures**, the outer door can be electrically heated with 12V or 24V AC or DC. **Heating is controlled by temperature**, operating only at temperatures below +10°C (at factory default settings).

Adaption of the magnetic closure device and heating device to different voltages (12V or 24V) is performed **automatically** by all Series FSK700 units, guaranteeing quick and problem-free commissioning.

1.3 Types of signs

Especially important passages in this manual are marked with signs. The following signs are used:



ATTENTION! Disregard of this reference can lead to malfunction or damage to the unit.



TIP! This passage contains notes that will help ease operation.



The country-specific and/or the site-specific requirements of the device and/or system **APPROVALS** must be observed.

1.4 Outline of the manual

Following the **safety instructions** on page 4, and guidelines given in the **first chapter**, which should be implicitly observed,

- ◆ **chapter two** contains all information required to **operate** a Series FSK700 Fire Brigade Key Safe. It is explained how the Fire Brigade Key Safe works in combination with a fire detection control panel, a controlling and monitoring device, an unblocking device, and a transmitting device, as well as describing in which situations sabotage alarm is activated.
- ◆ In **chapter three**, relevant guidelines for the **installation** of the Fire Brigade Key Safe by a specialist installer are given.
- ◆ In **chapter four**, the specialist installer is provided with an overview of the arrangement of terminals, connectors, and other important elements, as well as information required to **connect** the Fire Brigade Key Safe to an MEP Key Safe Controlling and Monitoring Device AD900-1, and to a fire detection control panel.
- ◆ In **chapter five**, **commissioning** of the Fire Brigade Key Safe is described in detail for the specialist installer.
- ◆ In **chapter six**, notes on **inspection** and **maintenance** of the unit are given. Also described in this chapter are possible causes of **malfunction** and steps to correct them.
- ◆ In **chapter seven**, all essential **technical specifications** of the unit are presented.
- ◆ In **chapter eight**, copies of the **VdS-Prüfzertifikat** and the **EC Declaration of Conformity** are provided.

1.5 Abbreviations

The correct designations for both Key Safe types "Fire Brigade Key Safe FSK700-2" and "Fire Brigade Key Safe FSK700-2SX" are shortened to "Fire Brigade Key Safe", "Key Safe", or "Series FSK700" for improved readability of the manual. Differences between the two types are noted in the respective text passages.

1.6 Important advice for the operator and specialist installer

The keeping of keys in a Fire Brigade Key Safe results in an increased level of danger, which the insurance company must be informed of.



If the key depot is not VdS-certified and/or is not installed, operated and maintained according to the VdS-Richtlinien für Schlüsseldepots, Planung, Einbau und Instandhaltung (VdS 2350), it is possible that no insurance protection is available for damages due to burglary, in case the building has been opened using the (real) key taken from the key depot.

The Fire Brigade Key Safe must only be used in combination with components recommended or certified by the manufacturer, and exclusively for the application described in the manual.

For the safe operation of the Fire Brigade Key Safe, appropriate transport, storage, installation, commissioning, inspection, proper maintenance and correction of malfunctions, as well as careful and competent handling are required.

Fire detection systems and devices must, on principle, be installed by and receive maintenance from regularly trained technical staff only. Special training for technical staff must be performed by MEP-Gefahrenmeldetechnik GmbH (MEP) or personnel expressly authorised by MEP. Country-specific standards, rules and regulations, or instructions by MEP must be strictly abided.

For proper functioning of the fire detection system, all devices must be installed according to regulations, and supplied with voltage. It must be ensured that all units are suitable to use under expected environmental conditions.



All work on the componentry of the Fire Brigade Key Safe must be performed without voltage. Installation must be thoroughly checked prior to supplying voltage.

Regular maintenance based on country-specific standards must be performed on fire detection systems. Required repairs are to be promptly performed.



The locking bolt must only be installed in the outer door after both the Fire Brigade Key Safe and the connected controlling and monitoring device are fully operational!
Also take note of the advice given from page 15 onwards in chapter 3.5: "Preparation of the Fire Brigade Key Safe", as well as from page 29 onwards in chapter 5.4: "Commissioning instructions".

1.7 Cleaning the Series FSK700 Fire Brigade Key Safe

Series FSK700 Key Safes are manufactured from stainless steel, and as such are – apart from providing high mechanical stability – mostly corrosion-free. Residue of steel or iron (e.g., grit produced by brake discs of motorised vehicles), however, can rust and penetrate the corrosion protection layer of almost any high-grade steel – this can, after prolonged exposure, leave traces of corrosion on the Key Safe itself.

To prevent this, the front side of the Key Safe should regularly be cleaned using a plain, non-abrasive cleaning aid. Afterwards, special products for care of stainless steel should be applied to the surface.



Under no circumstances use abrasive detergents – this would scratch the finely polished surface of the Key Safe!


1.8 Product contents

Series FSK700 Key Safes are 100% tested for operation, and are supplied with all materials necessary for installation, as well as a manual.

Outside the scope of delivery are Inner Doors, Flush Mounting Frames, Auxiliary Locking Cylinders, Weather Protection Hood, etc. These are listed in the following chapter 1.9: "Product overview", must be ordered, and will be delivered separately.

1.9 Product overview

The following table lists all types of Series FSK700 Fire Brigade Key Safes, as well as available accessory parts.

	<ul style="list-style-type: none"> • MEP Article No. • Name • Type • Notes
	<ul style="list-style-type: none"> • 265740 • Fire Brigade Key Safe • FSK700-2 • For safekeeping of one master key
	<ul style="list-style-type: none"> • 265742 • Fire Brigade Key Safe • FSK700-2SX • For safekeeping of two master keys, with upgrade options for up to four master keys
	<ul style="list-style-type: none"> • 265751 • Flush Mounting Frame • EZ700-2 • For installation of Key Safe FSK700-2 or FSK700-2SX in a solid wall
	<ul style="list-style-type: none"> • 265818 • Flush Mounting Frame with All-Side Drill Protection • EZBS700-2 • For installation of Key Safe FSK700-2 or FSK700-2SX in the Key Safe Column or a wall with thermal insulation.
	<ul style="list-style-type: none"> • 265752 • Inner Door for FSK700-2/2SX/PHZ/30.5mm • ITA-2 • Includes pre-installed lock for locking cylinders compliant with VdS 2156 Class B, with a length of 30.5mm. Locking cylinder is not included!
	<ul style="list-style-type: none"> • 265748 • Inner Door for FSK700-2/2SX/PHZ/35.5mm • ITA-3 • Includes pre-installed lock for locking cylinders compliant with VdS 2156 Class B, with a length of 35.5mm. Locking cylinder is not included!
	<ul style="list-style-type: none"> • 265753 • Inner Door for FSK700-2/2SX/DBUS • ITB-2 • For double-bit variable lock type 2 or type 2005. Lock is not included!
	<ul style="list-style-type: none"> • 265757 • Inner Door for FSK700-2/2SX/DBUS • ITF-2 • For double-bit variable lock type Mauer 70091/70092. Lock is not included!
	<ul style="list-style-type: none"> • 265744 • Auxiliary Locking Cylinder for FSK700-2/2SX • PHZ700-2 • Common key locking cylinder, total length 36.3mm, key bit position of 0°. An auxiliary locking cylinder is used if special master keys (e.g., electronic keys, transponders, etc.) are to be kept inside the Key Safe. These are inseparably attached to the supplied key fitting the auxiliary locking cylinder using the included quick link.



	<ul style="list-style-type: none"> • 265743 • Locking Cylinder Mounting Bracket FSK700-2SX • PHZAW700-2S1 • For upgrading Key Safe FSK700-2SX to be able to keep one additional master key
	<ul style="list-style-type: none"> • 249650 • Weather Protection Hood for FSK700-2/2SX • WSD-FSK • Offers further protection of the Fire Brigade Key Safe against humidity if rain hits the area around the outer door from above or from the sides

Table 1: Available accessory parts for the Series FSK700 Fire Brigade Key Safe

1.10 Special terms

Several of the technical / special terms that appear in this manual are defined herein. Take further notice of the information given in the manual of the respectively used fire detection control panel.

◆ Unblocking device

A key switch to which public safety services (e.g., fire brigade) possess a key, installed outside the site, and with which fire alarm can be activated from outside the site. The fire alarm will activate the transmitting device of the fire detection control panel, thus unlocking the outer door of the Key Safe in which the master key is kept.

◆ Auxiliary locking cylinder

An auxiliary locking cylinder is used if special master keys inapplicable for use with a locking cylinder (e.g., electronic keys, transponders, etc.) are to be kept inside the Fire Brigade Key Safe. The master keys are inseparably attached to the supplied key fitting the auxiliary locking cylinder using the included quick link.

◆ Key depot, termed "Key Safe" in the manual

Solid two-door container, which can be unlocked remotely, used for the safekeeping of master keys. A key depot consists of a mechanically stable case, of which the outer door can be electromagnetically unlocked by an unlocking device. Located inside the key depot is an inner door, to which the key is in the possession of, e.g., the fire brigade or a security company alone. The master keys are kept behind the inner door. The key depot, as well as the keys kept inside are under electronic surveillance. The keys are thus protected from unauthorised access, yet quickly reachable by the fire brigade in case of emergency.



Definition from VdS-Richtlinie 2105: "4.2.4. Key depot 3 (SD3) – equal to DIN 14675 – FSD 3. A container installed in a solid outer wall of a building. The keys kept inside the container enable entry to secured areas. Monitoring of the key depot is required. The key depot is connected to an alarm detection control panel."

◆ Key depot control

Key depot control incorporates all functions required for controlling and monitoring of a key depot. It can be available as part of an external device (e.g., fire detection control panel), a discrete module (e.g., circuit board), or a separate device.

◆ Key depot controlling and monitoring device

Key depot control variant, available as a separate device or discrete module (e.g., a slide-in module for an alarm system).

◆ Transmitting device for alarm transmission

Transmitting devices receive messages from alarm systems, process them for transmission via transmission paths, and serve as interface for these transmission paths. Furthermore, transmitting devices process the commands given by the alarm receiving device and transmit them to the connected alarm system.

- ◆ **Confirmation signal**
Signal transmitted to the fire detection control panel by the transmitting device, serving as confirmation of the successful activation of the transmitting device.
- ◆ **Variable lock**
Lock that can be converted to use a new key code without replacing the tumblers.

1.11 Standards, Guidelines, CE marking

This manual contains dated and undated references to relevant standards. These references appear in the appropriate sections of the manual, the titles of these standards are listed below. The latest version of the respective standards are in effect.

DIN 14675 / App. C	Fire detection and fire alarm systems - Design and operation
VdS 2105	Schlüsseldepots (SD) - Anforderungen an Anlagenteile
VdS 2350	Schlüsseldepots (SD) - Planung, Einbau und Instandhaltung
DIN 1053	Masonry
DIN 106	Calcium silicate units with specific properties
DIN 1045	Concrete, reinforced and prestressed concrete structures
DIN 49020	Conduit for Electrical Wiring; Screwed Steel Conduit, Plain Conduit, Couplers

The CE marking on the Series FSK700 Fire Brigade Key Safe is done in accordance with Directive 2004/108/EC of the European Parliament and of the Council regarding Electromagnetic Compatibility (EMC). With the CE marking, see page 38 in chapter 8.2: "EC Declaration of Conformity", the manufacturer confirms that the product conforms to EMC Directive 2004/108/EC.

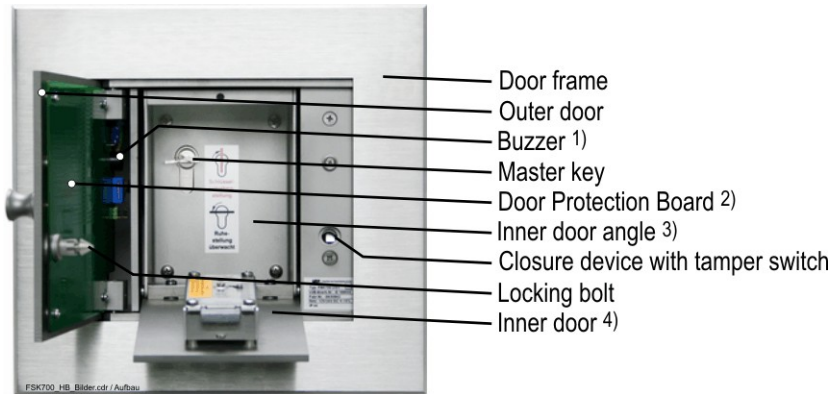
1.12 Warranty

All parts of the Series FSK700 Fire Brigade Key Safe by MEP are manufactured with highest precision and utmost care. Nonetheless, the occurrence of malfunctions during operation cannot be ruled out entirely. To register a complaint, please contact the company responsible for installation of your system.

While the warranty period is in effect, all parts that become defective because of a demonstrable flaw in their manufacture or in material will be either replaced or repaired free of charge. In such cases, the time period of the original warranty will not be extended, nor will a new warranty period be set for the replaced or repaired parts. All further claims are excluded, especially those regarding reductions of the purchase price, cancellation of contract, compensatory damages or replacement due to secondary damages of any type. Beyond these regulations, the current regulations of the "General Terms of Delivery" that are issued by the Austrian Electrical and Electronics Industry Association are in effect.

2 Function

The Series FSK700 Key Safe features independently operating sensors and actuators. The logical operations between the signals of the sensors and actuators are made by the corresponding monitoring equipment (such as Key Safe Controlling and Monitoring Device AD900-1, MEP Article No. 265900), which acts as intelligent interface between the Key Safe and the fire detection control panel or burglar alarm system.



- 1) See page 13 onwards in chapter 2.4: "Fire alarm reset"
- 2) With integrated temperature-controlled panel heating
- 3) With one master key
- 4) With double-bit variable lock and inserted key

Fig. 3: Fire Brigade Key Safe FSK700-2, displayed with doors open

2.1 Normal condition

The Fire Brigade Key Safe is in normal condition if:

- ◆ the master key/all master keys are inserted correctly,
- ◆ the inner door is closed,
- ◆ the key to the inner door has been removed,
- ◆ the outer door is closed, and
- ◆ the unlocking device of the Key Safe has not been activated.

In normal condition, the electromagnet of the outer door closure device is rendered currentless.

2.2 Fire alarm condition

Fire alarm is reported to the fire brigade by the fire detection control panel using a transmitting device. The fire brigade will transmit the confirmation signal, which, via the controlling and monitoring device, electromagnetically unlocks the outer door of the Key Safe – the outer door is thereby cleared for opening.



The outer door does not open automatically after unlocking.

After opening the outer door, the inner door can be accessed. Using the key in possession of the fire brigade, the inner door can be opened, and the master key(s) obtained.



In this state, monitoring of opening or sabotage of the Key Safe, as well as – if available – monitoring of the Flush Mounting Frame with Drill Protection and the Key Safe Column is disabled.



In special application cases, unlocking of the outer door must only be performed when, supplementary to the confirmation signal, the fire detection control panel is in fire alarm condition. The Key Safe Controlling and Monitoring Device AD900-1 by MEP is equipped for this special application, featuring two unlocking inputs, which can be connected via a logical AND operation (AD900-1 / S2-1 switched "ON").

2.3 Activation of the unblocking device

The unblocking device (a specially realised key switch – see, for example, Unblocking Device FSE/PHZ900-1, MEP Article No. 265662) is connected to the fire detection control panel in the same way as a manual call point. Upon activation of the unblocking device, fire alarm will be activated, thus unlocking the outer door of the Fire Brigade Key Safe via the confirmation signal of the transmitting device connected to the fire brigade.



Activation of the fire detection control panel by the unblocking device must not affect Fire Control procedures of the fire detection control panel.

2.4 Fire alarm reset

The outer door of the Key Safe will only lock again after the fire detection control panel is reset, thereby terminating the confirmation signal, the/all master keys have been reinserted, and the inner and outer door have been closed. Successful locking can be confirmed by pulling the outer door.



By locking the outer door, monitoring of opening or sabotage of the Key Safe, as well as – if available – monitoring of the Flush Mounting Frame with Drill Protection and the Key Safe Column will be reactivated.

Should a master key not have been inserted correctly after resetting the fire detection control panel, a sustained buzzing tone generated by the Key Safe's integrated buzzer will sound upon closing the outer door.



This function is only available if the Key Safe is connected to the Key Safe Controlling and Monitoring Device AD900-1 by MEP (also see page 28 and onwards in chapter 5.3.2: "Acoustic warning signal when missing master key").

If the Key Safe remains unopened during fire alarm, the outer door will be automatically locked again upon termination of the confirmation signal, and monitoring of opening or sabotage of the Key Safe, as well as – if available – monitoring of the Flush Mounting Frame with Drill Protection and the Key Safe Column will be reactivated.

2.5 Sabotage alarm

The following states are constantly monitored by the Key Safe Controlling and Monitoring Device AD900-1:

- ◆ Outer door closed,
- ◆ Drill Protection Board undamaged,
- ◆ master keys correctly inserted,
- ◆ Drill Protection of the Flush Mounting Frame undamaged (if available),
- ◆ Tamper Switch of the Key Safe Column closed (if available).

The Key Safe Controlling and Monitoring Device AD900-1 will generate an alarm signal if – e.g., by forcefully breaking into the Key Safe – one of these monitored states is violated insofar as causing the monitor loop's resistance to deviate more than 40% from normal condition.



DIN 14675 / chapter C.2.2.3: The report (sabotage report) must, under application according to Class FSD 3 (high risk), be forwarded to an office or authority that is available at all times, such as a police department or security company.

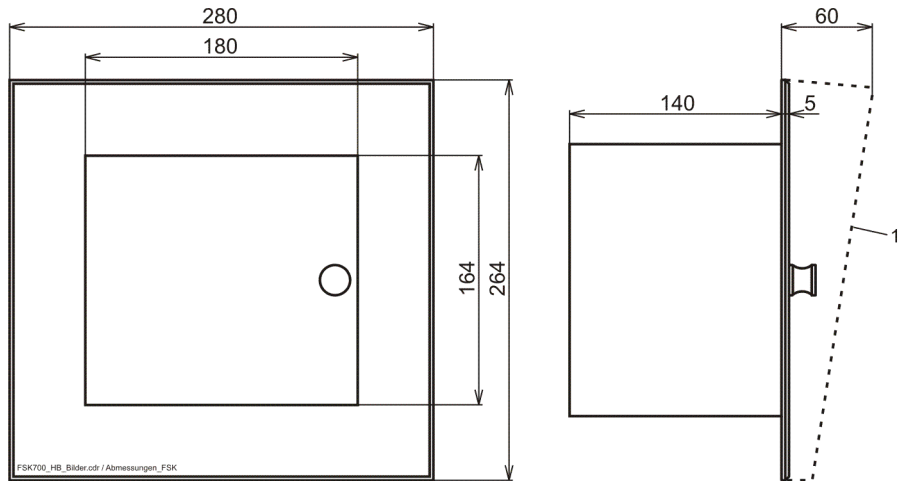


If the Key Safe has been unlocked by the confirmation signal, sabotage monitoring is disabled until a reset is performed correctly (see page 13 and onwards in chapter 2.4: "Fire alarm reset").

3 Installation

3.1 General

Installation and commissioning of the Series FSK700 Fire Brigade Key Safe is to be performed by a specialist company trained and authorised by MEP-Gefahrenmeldetechnik GmbH or their local representative. All relevant standards and regulations must thereby be observed (see page 11 and onwards in chapter 1.11: "Standards, Guidelines, CE marking").



¹⁾ Optional Weather Protection Hood WSD-FSK

Fig. 4: Dimensions of the Series FSK700 Key Safe, starting from production number 08/06806

The Key Safe is to be inserted in the Flush Mounting Frame EZ700-2, MEP Article No. 265751, which must be tightly grounded in the wall. Should the wall not be sufficiently solid (see page 14 and onwards in chapter 3.2: "Installation site"), the Flush Mounting Frame with Drill Protection EZBS700-2, MEP Article No. 265818 must be utilised instead.



Instructions for installation of the Key Safe in the Key Safe Column SDS700-2 are provided in the manual "Key Safe Column SDS700-2" by MEP-Gefahrenmeldetechnik GmbH.

Controlling and monitoring of the Key Safe must be performed using a VdS-certified controlling and monitoring device (such as Key Safe Controlling and Monitoring Device AD900-1, MEP Article No. 265900).



Instructions for installation of the controlling and monitoring device are provided in the manual of the respectively used device.

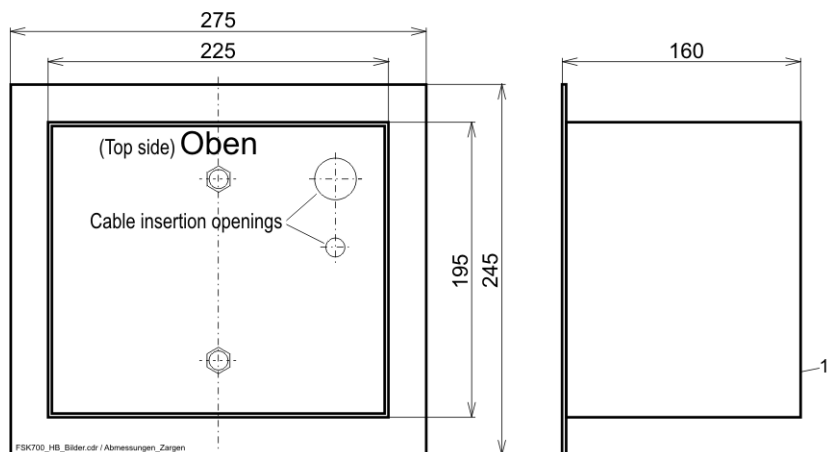
3.2 Installation site

The Key Safe is to be installed in accordance with the local fire brigade, preferably in a weather-proof location (i.e., in an alcove, passageway, or under a canopy), flush mounted in the wall. The bottom edge of the Key Safe should be located about 1.2m (at least 0.8m) above the floor.

The wall in which the Key Safe (i.e., Flush Mounting Frame EZ700-2) is to be installed in must be made from stone work according to DIN 1053, bricks according to DIN 105, lime-sand bricks according to DIN 106, or from reinforced concrete (minimum B 25 according to DIN 1045). The wall must be at least 80mm thicker than the installation depth of the Key Safe.

Should no adequately solid wall suitable for installation of the Key Safe be available (e.g., only walls with thermal insulation), the Flush Mounting Frame with Drill Protection EZBS700-2 must be utilised to improve security and protect against sabotage.

3.3 Installation of Flush Mounting Frame EZ700-2 or Flush Mounting Frame with Drill Protection EZBS700-2



1) The front edge of the Flush Mounting Frame must not protrude from the wall

Fig. 5: Dimensions of Flush Mounting Frames EZ700-2 and EZBS700-2

The front edge of the Flush Mounting Frame must be flush-mounted to the wall surface (under no circumstances must it protrude!) as best as possible. The bottom edge of the Key Safe should be located about 1.2m (at least 0.8m) above the floor.

Installation of Flush Mounting Frames EZ700-2 and EZBS700-2 is to be performed according to the manual provided with the Flush Mounting Frames.

- ◆ Insert the Flush Mounting Frame into the prepared opening in the wall, and insert the conduits for the connection cables, as well as for the protective earth into the Flush Mounting Frame from behind.



Notice the required installation position (labelled: "OBEN / TOP SIDE – Einbauzarge putzbündig einmauern!").

- ◆ Fix the Flush Mounting Frame onto the installation surface.
- ◆ Fill the remaining openings in the Flush Mounting Frame, as well as the inner space with suitable materials, to prevent mortar, cement, or similar from entering while setting the Flush Mounting Frame into the wall.
- ◆ Protect the drill protection film inlaid in the Flush Mounting Frame with Drill Protection EZBS700-2, and the connection cable from damage while setting the Flush Mounting Frame into the wall.
- ◆ Fix the Flush Mounting Frame in the wall.

3.4 Installation of Flush Mounting Frame EZ700-2 or Flush Mounting Frame with Drill Protection EZBS700-2 in Key Safe Column SDS700-2

Instructions for installation in the Key Safe Column SDS700-2, with or without cement grouting according to VdS guidelines 2105 and 2350, are found in the manual "Key Safe Column SDS700-2" by MEP-Gefahrenmeldetechnik GmbH.

3.5 Preparation of the Fire Brigade Key Safe

The Series FSK700 Fire Brigade Key Safe must be fitted with the appropriate inner door, as well as the locking cylinder(s) for the master key(s) or auxiliary locking cylinder(s). Installation of additional Locking Cylinder Mounting Brackets PHZAW700-2S1 along with appropriate locking cylinders is required for the Series FSK700-2SX Key Safe if more than two master keys are to be kept. It is possible to perform the following tasks on an already installed Key Safe – however, it is recommended to complete preparation of the Key Safe before installation in the Flush Mounting Frame.



The locking bolt supplied in the accessory kit must only be installed in the outer door after both the Fire Brigade Key Safe and the connected controlling and monitoring device are fully operational! Should the electrical unlocking device not be fully operational upon closing the outer door with installed locking bolt, the Key Safe can only be opened again by means leading to the destruction of some of its componentry (e.g., outer door, Drill Protection Board). Additional advice can be found on page 29 and onwards in chapter 5.4: "Commissioning instructions".

3.5.1 Removal of the inner door angle

For the tasks of installing the Fire Brigade Key Safe in the Flush Mounting Frame, setting up cable connections, as well as for the installation of the locking cylinder(s) for the master key(s), the inner door angle must be removed.

Removal of the inner door angle is to be performed as follows:

- ◆ Open the outer and inner doors.
- ◆ Remove all master keys.
- ◆ Remove the 4 mounting screws on the inner door angle (see Fig. 6 below).
- ◆ Pull out the inner door angle in a forward direction.

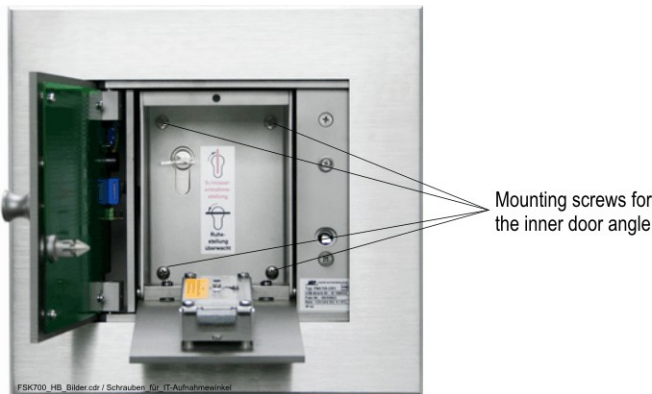


Fig. 6: Location of the mounting screws for the inner door angle
The figure shows an already installed locking cylinder for the master key, as well as an inner door including lock – these parts are not pre-installed in a newly shipped Key Safe!



Reinstallation of the inner door after completion of the planned tasks is to be performed with the steps in reverse order.

3.5.2 Installation of a locking half cylinder in the Locking Cylinder Mounting Bracket

Depending on the case of application, either a locking half cylinder identical to the locking mechanisms used on-site, or alternatively, an auxiliary locking cylinder (see page 10 and onwards in chapter 1.10: "Special terms") must be installed.



Locking cylinders that meet the requirements listed in the technical specifications on page 35 and onwards in chapter 7.1: "Fire Brigade Key Safe FSK700-2, FSK700-2SX" are to be used exclusively.

- ◆ Remove the inner door angle, see page 16 and onwards in chapter 3.5.1: "Removal of the inner door angle".
- ◆ Adjust the locking cam of the locking half cylinder so that it points downwards when assuming the key removal position, see Fig. 7 below.



Fig. 7: Position of the locking cam with key removed

- ◆ Insert the locking half cylinder into the Locking Cylinder Mounting Bracket and fix it in place using the M5×12mm hex head screw included in the accessory kit.

- ◆ Check the detent and proper triggering of the micro switch by the locking cam.
- ◆ Check if the label showing the key removal position, found on the inner door angle, conforms with the installed locking half cylinder for the master key. An alternative label showing a horizontal key removal position is included in the accessory kit of the Key Safe, see Fig. 8 below.

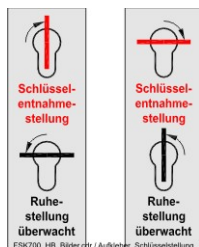


Fig. 8: Label showing key removal position of the locking half cylinder designated for the master key (key removal position on top)
 On the left: factory default label
 On the right: alternative label showing horizontal key removal position

3.5.3 Installation of additional locking half cylinders in Key Safe FSK700-2SX

Fire Brigade Key Safe FSK700-2SX is factory-equipped with two Locking Cylinder Mounting Brackets. Using the supplementary Locking Cylinder Mounting Brackets PHZAW700-2S1, Key Safe FSK700-2SX can be upgraded to up to four locking half cylinders.

- ✎ A Locking Cylinder Mounting Bracket PHZAW700-2S1 is required for every additional locking half cylinder.
- ✎ Key Safe type FSK700-2 is not applicable for installation of additional locking half cylinders.

Installation is to be performed as follows:

- ◆ Remove the inner door angle, see page 16 and onwards in chapter 3.5.1: "Removal of the inner door angle".
- ◆ Adjust the locking cam of the locking half cylinder so that it points downwards when assuming the key removal position, see Fig. 7 above.
- ◆ Insert the locking half cylinder into the Locking Cylinder Mounting Bracket and fix it in place using the M5×12mm hex head screw included in the accessory kit.
- ◆ Install the Locking Cylinder Mounting Bracket including locking half cylinder in the next available install position, see Fig. 9 below, left-hand picture. The required M4 nuts are included in the accessory kit of the Locking Cylinder Mounting Bracket.

- ✎ The cables leading from the Locking Cylinder Mounting Brackets should only be connected to the Connection Board after all cables leading from the controlling and monitoring device have been connected. See page 25 and onwards in chapter 4.5.3: "Connecting the cables of the Locking Cylinder Mounting Brackets".

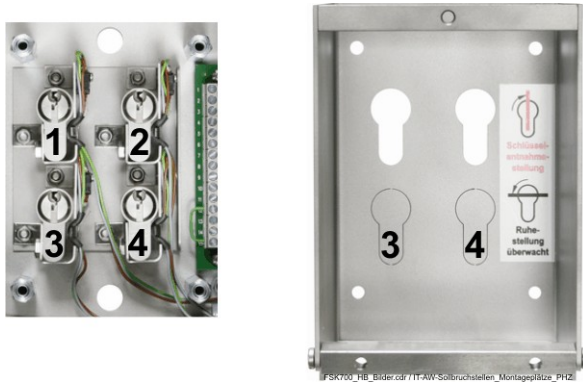


Fig. 9: Arrangement of locking half cylinders for master keys in Key Safe FSK700-2SX
 On the left: install positions for 4 Locking Cylinder Mounting Brackets in Key Safe FSK700-2SX
 On the right: breaking points for locking half cylinders 3 and 4 on the inner door angle

- ◆ The appropriate breaking point for every additional locking half cylinder must be opened up on the inner door angle, for example, using a flat chisel and applying a few soft hammer blows.

3.5.4 Installation of the inner door

All installation materials required for installation are included in the accessory kit provided with the respective inner door.



Installation of the inner door can be performed more easily after removing the inner door angle (see page 16 and onwards in chapter 3.5.1: "Removal of the inner door angle").



The locking mechanism to be used in the inner door (i.e., locking half cylinder, variable lock) is to be determined by local authorities.

- ◆ Install the variable lock in the inner door, or, with inner doors ITA-2 and ITA-3, insert the locking half cylinder into the lock and fix it using an M5×65mm countersunk head screw, see Fig. 10 below, right-hand picture (detail "A").
- ◆ Fix the inner door on the inner door angle using two M4×6mm screws, see Fig. 10 below, left-hand picture (detail "B"). The shaped recesses in the door bearings must face the inner door.

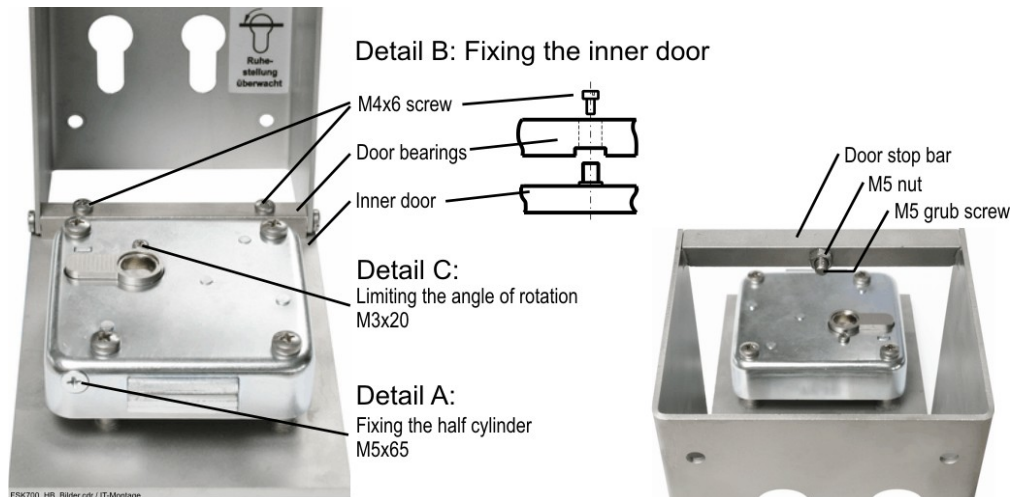


Fig. 10: Installation of the inner door
 On the left: detail "A": Screw fixing the locking half cylinder in Inner Doors ITA-2 and ITA-3
 detail "B": Fixing the inner door to the door bearings
 detail "C": Screw used for limiting the angle of rotation
 On the right: View of the inner door angle from behind/above. The clearance of the locked inner door is adjusted with the M5 grub screw on the door stop bar. Fix the adjustment setting using the M5 counter nut.

- ◆ Insert the M5 grub screw in the upper door stop bar of the inner door angle, but tighten it only as much so that sufficient clearance is guaranteed when the inner door is closed (see Fig. 10 above, right-hand picture).

- ◆ Fix the position of the grub screw using the M5 nut included in the accessory kit.
- ◆ For inner doors equipped with a locking half cylinder (ITA-2 and ITA-3), an M3×20 screw must be used after installing the locking cylinder to limit the angle of rotation (see Fig. 10 above, right-hand picture, detail "C"), so the key cannot be removed when in unlocked position.
- ◆ Afterwards, verify the proper functioning of the locking mechanism.

3.6 Installation of the Fire Brigade Key Safe in the Flush Mounting Frame

- ◆ Connect the protective earth to the spot marked by the earthing symbol on Flush Mounting Frame EZ700-2 or EZBS700-2.
- ◆ Insert the cable lead-throughs included in the accessory kit of the Key Safe in the two designated openings in the back wall of the Key Safe.
- ◆ Remove the inner door angle from the Key Safe (see page 16 and onwards in chapter 3.5.1: "Removal of the inner door angle").
- ◆ Insert the Key Safe into the Flush Mounting Frame, at the same time insert the cable leading from the controlling and monitoring device through the upper cable lead-through, and – if available – insert the cable connecting the Drill Protection of Flush Mounting Frame EZBS700-2, as well as the Tamper Switch of the Key Safe Column through the lower cable lead-through in the back wall of the Key Safe.



Be careful that

- the cable(s) do not get crushed between the back wall of the Key Safe and the Flush Mounting Frame, and
- the componentry inside the Key Safe does not get damaged during inserting the cables!

- ◆ Fix the Key Safe in the Flush Mounting Frame using the M10 nuts, washers, and toothed lock washers included in the accessory kit of the Flush Mounting Frame.



Tighten the nuts only as much so that the Key Safe is properly secured to the installation wall, without deforming the base of the Flush Mounting Frame.

If the application of the Weather Protection Hood is indicated by weather conditions, the Weather Protection Hood must be installed before fixing the Key Safe to the wall. Insert the Weather Protection Hood from above, between the wall, or Key Safe Column, respectively, and the door frame of the Key Safe, and fix it using M10 nuts. Be careful not to damage the cellular rubber strips attached to the back sides of the Weather Protection Hood and the door frame.

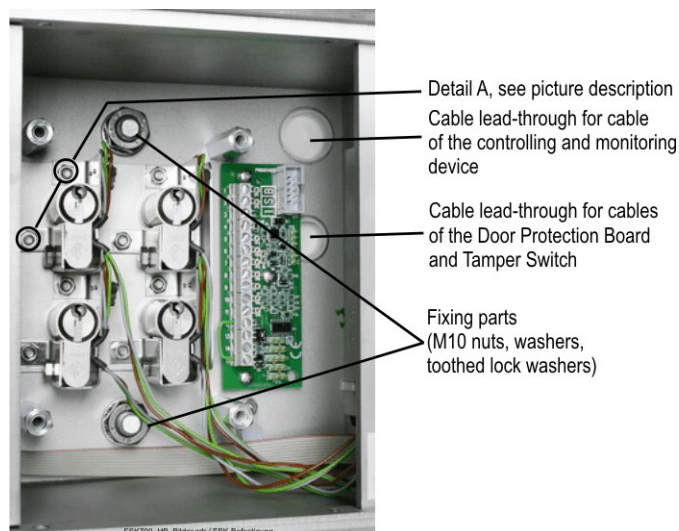


Fig. 11: Fixing the Key Safe (example: FSK700-2SX, able to keep four master keys) into the Flush Mounting Frame
Detail "A": Nuts for fixing the Locking Cylinder Mounting Bracket in Key Safe FSK700-2, or the L-bracket with Locking Cylinder Mounting Brackets in Key Safe FSK700-2SX, respectively. See page 22 and onwards in chapter 4.4: "Connecting".

4 Connection



The locking bolt supplied in the accessory kit must only be installed in the outer door after both the Fire Brigade Key Safe and the connected controlling and monitoring device are fully operational! Should the electrical unlocking device not be fully operational upon closing the outer door with installed locking bolt, the Key Safe can only be opened again by means leading to the destruction of some of its componentry (e.g., outer door, Drill Protection Board). Additional advice can be found on page 29 and onwards in chapter 5.4: "Commissioning instructions".

The connection between the controlling and monitoring device and the Fire Brigade Key Safe is to be made continuously, as well as preferably in-wall, or protected by other means.



Before beginning to make the connections, disconnect the cables connected to Connection Board APL-4 (closure device, Locking Cylinder Mounting Bracket, etc.), to gain additional working space.

4.1 Preparation of the connection cables

The cables inserted through the back side of the Fire Brigade Key Safe are to be prepared as follows:

- ◆ Trim the connection cable leading from the controlling and monitoring device to a length of approximately 60cm (measured from the cable insertion opening).
- ◆ The cables leading from the Drill Protection of Flush Mounting Frame EZBS700-2, as well as those leading from the Tamper Switch of the Key Safe Column are not to be trimmed. The excess length of these cables can be housed in the hollow space between the Flush Mounting Frame and the Key Safe (approx. 17mm).
- ◆ Strip off 15cm of the insulation of the cable leading from the controlling and monitoring device. The cables leading from the Drill Protection of Flush Mounting Frame EZBS700-2, as well as those leading from the Tamper Switch of the Key Safe Column have already been prepared accordingly.



If a cable with a large outer diameter is used to connect the controlling and monitoring device, it is suggested to strip the insulation off the cable (starting at the cable insertion opening), to ensure the small bending radius required inside the Key Safe can be achieved.

- ◆ Insert the cables into the Key Safe according to Fig. 12 below, and fix the cables in place using the nylon cable clamp located right below the Connection Board.

4.2 Inner view of the Fire Brigade Key Safe

Fig. 12 below pictures the inner view of Fire Brigade Key Safe FSK700-2SX, with the inner door angle removed.

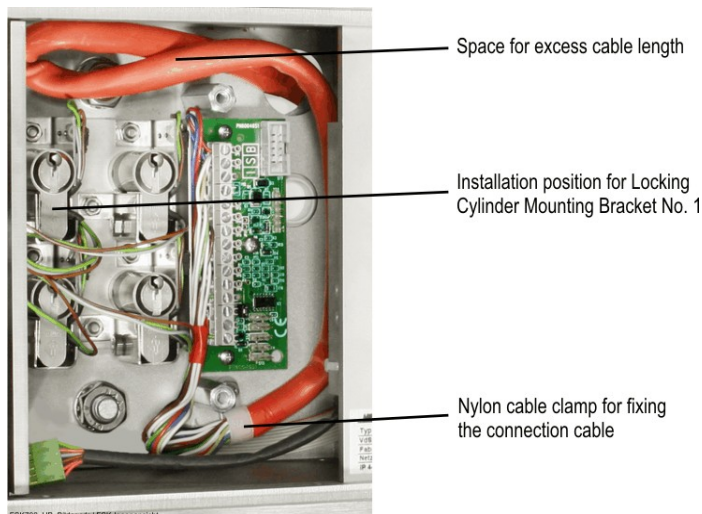



Fig. 12: Inner view of the Fire Brigade Key Safe, using the example of Key Safe FSK700-2SX. All connectors on Connection Board APL-4 have been disconnected for easier handling. The cable leading from the controlling and monitoring device has been inserted with excess length, fixed in place using the nylon cable clamp, and connected to the terminals.

The space pictured in Fig. 12 is sufficient to house cables of type J-Y(St)Y8×2×0.8. If a cable with a thicker insulation diameter (e.g., functional endurance cable, earth cable) is used, the insulation should be stripped off the cable (starting at the cable insertion opening), to ensure the small bending radius required inside the Key Safe can be achieved.

 With Key Safe FSK700-2SX, the terminals on the Connection Board can be made more accessible by removing Locking Cylinder Mounting Bracket No. 1 (see Fig. 11, detail "A" on page 19), by which the L-bracket can be removed as well. Be careful that no cables get crushed during reassembly.

4.3 Layout of Connection Board APL-4

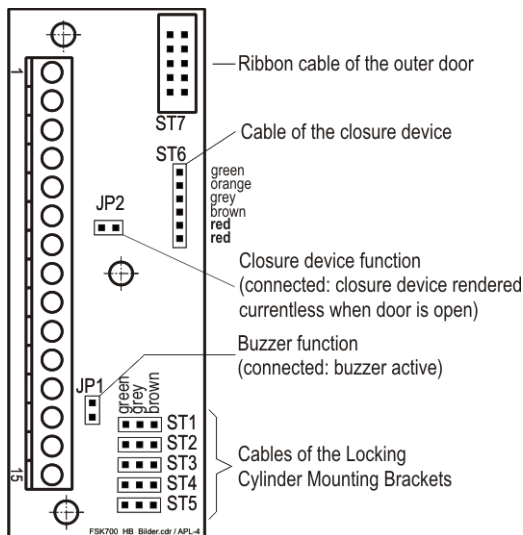


Fig. 13: Location of the terminals, connectors, and jumpers on Connection Board APL-4

Connecting the cables leading from the outer door, closure device, and Locking Cylinder Mounting Brackets is described on page 24 and onwards in chapter 4.5: "Connecting the cables of the Key Safe to Connection Board APL-4".

With **Jumper JP1**, it is possible to adjust whether the buzzer installed in the Key Safe should activate in the event that the Key Safe is closed without the master key(s) having been inserted correctly (see page 28 and onwards in chapter 5.3.2: "Acoustic warning signal when missing master key").

- ◆ JP1 connected (factory default setting): the buzzer will activate if the master key(s) have not been inserted correctly.
- ◆ JP1 disconnected: the buzzer will not activate.



This function is only available if Key Safe Controlling and Monitoring Device AD900-1 is utilised as controlling and monitoring device.

With **Jumper JP2**, it is possible to adjust whether the current supplied to the closure device should be cut when the outer door of the Key Safe is opened.

- ◆ JP2 connected: the current supplied to the closure device will be cut while the outer door is open.
- ◆ JP2 disconnected (factory default setting): the closure device will remain activated until the Fire Brigade Key Safe is switched back to normal condition.

4.4 Connecting

4.4.1 Complete connection diagram

In the connection diagram, Fig. 14 below, the typical interconnection of a

- ◆ Series FSK700 Fire Brigade Key Safe together with
- ◆ Key Safe Controlling and Monitoring Device AD900-1, a
- ◆ fire detection control panel, a
- ◆ transmitting device, an
- ◆ unblocking device, as well as the
- ◆ Drill Protection of Flush Mounting Frame EZBS700-1, or
- ◆ Tamper Switch DK700-2 of the Key Safe Column, respectively,
- ◆ among other devices

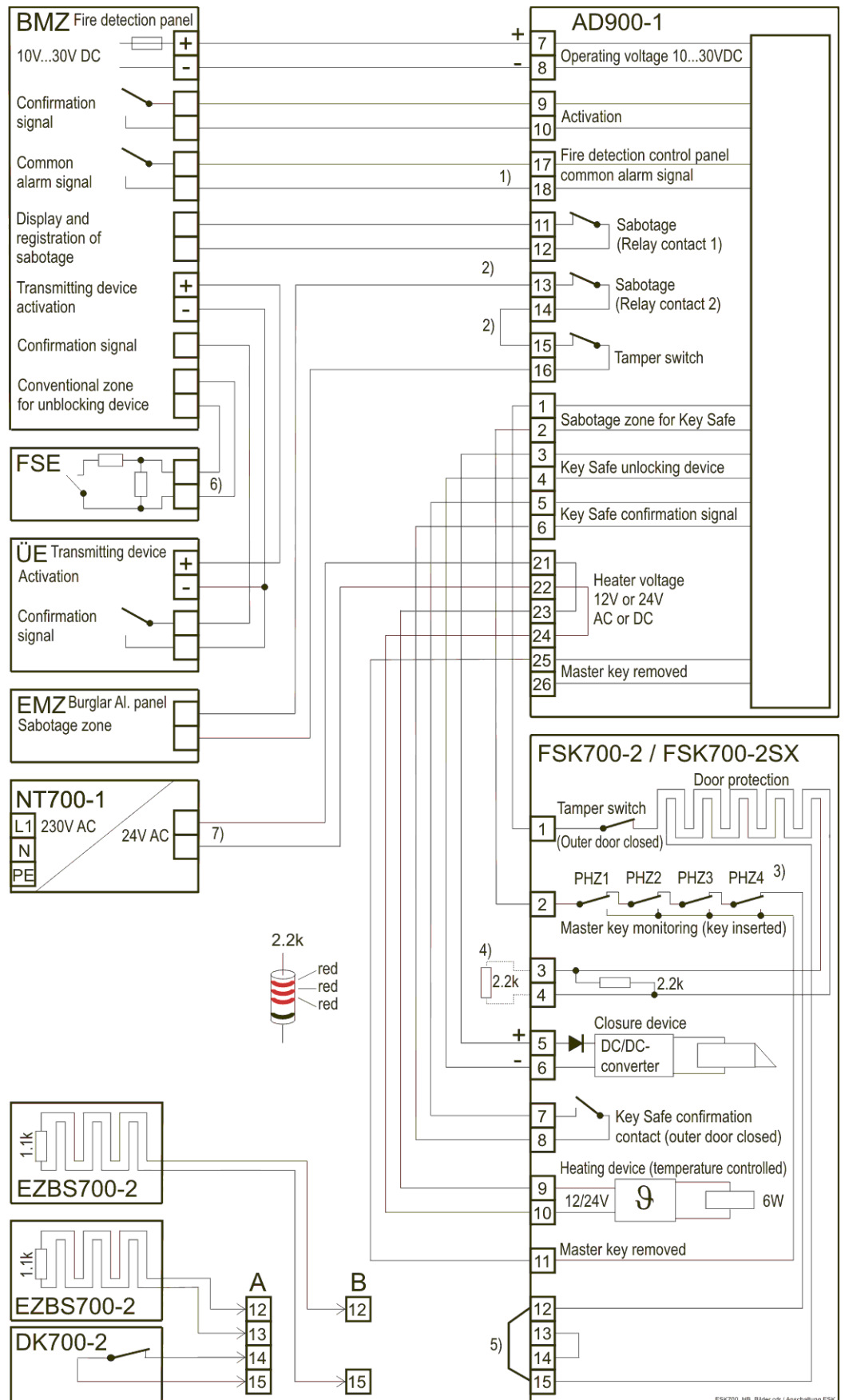
is pictured as an example. If, instead of Key Safe Controlling and Monitoring Device AD900-1, a different approved product is utilised, connections must be adapted accordingly.



With Key Safe FSK700-2SX, the terminals on the Connection Board can be made more accessible by removing Locking Cylinder Mounting Bracket No. 1 (see Fig. 11, detail "A" on page 19), by which the L-bracket can be removed as well. Be careful that no cables get crushed during reassembly.

Key to Fig. 14 on page 23:

- 1) An additional common alarm signal by the fire detection control panel is necessary on terminals 17/18 on the controlling and monitoring device if the first signal (terminals 9/10 on the controlling and monitoring device) is not available as a static signal, or if a second signal is required. When using Key Safe Controlling and Monitoring Device AD900-1, the DIL switch S2-1 is to be switched from "OFF" to "ON" in this case.
- 2) With an appropriate transmitting device, it is possible to forward the report of sabotage alarm directly. The sabotage contact "Relay contact 1" should be used to forward the sabotage alarm report to the fire detection control panel as well, to activate the display "Sabotage Schlüsselkasten" (*Key Safe sabotage*), and create an entry in the event log accordingly.
- 3) Only one Locking Cylinder Mounting Bracket is installed in Key Safe FSK700-2.
- 4) Use of the additional 2.2kΩ resistor is only permitted and required when connecting the Flush Mounting Frame with Drill Protection EZBS700-2. This resistor is included in the accessory kit of Flush Mounting Frame EZBS700-2.
- 5) The sabotage circuit of the Key Safe is closed by a jumper on terminals 12 and 15 at factory default settings. This jumper must be removed when connecting Tamper Switch DK700-2 of the Key Safe Column and/or the Flush Mounting Frame with Drill Protection EZBS700-2.
- 6) Connecting optional unblocking devices must always be performed under line surveillance.
- 7) Alternatively, the heating device of Key Safe FSK700 can be powered with nominal voltages of 12VAC or DC, or with 24VDC. The heating device for Unblocking Device FSE/PHZ900-1 by MEP is designated for 24VAC or DC exclusively!



The key to notes 1) through 7) can be found on page 22.

Fig. 14: Interconnection of Key Safe FSK700-2 / FSK700-2SX and Key Safe Controlling and Monitoring Device AD900-1, fire detection control panel, transmitting device, unblocking device, Power Supply Unit for Heating Device NT700-1, as well as Flush Mounting Frame EZBS700-1, or Tamper Switch DK700-2 of the Key Safe Column, respectively

Variant "A": Drill protection of Flush Mounting Frame EZB700-2 and Tamper Switch of the Key Safe Column are connected instead of jumper wire 5).

Variant "B": Drill protection of Flush Mounting Frame EZB700-2 is connected instead of jumper wire 5).

The drawn positions of the switches become effective if

- *the outer door of the Key Safe is closed and all master keys have been inserted correctly*
- *the AD900-1 is not signalling sabotage alert and its case door is closed*
- *the fire detection control panel is not signalling the common alarm signal and is not receiving the confirmation signal*
- *the transmitting device is not transmitting the confirmation signal*
- *the top cover of the Key Safe Column has not been lifted*



If an unblocking device with locking half cylinder is to be used, it is recommended to use the Unblocking Device FSE/PHZ900-1 by MEP, Article No. 265662, which shares the design of the Series FSK700 Key Safe. This unblocking device is standardly equipped with a heating device (24V/1W), which can be powered by the Power Supply Unit for Heating Device 24VNT700-1. Additional information is provided in the documentation of Unblocking Device FSE/PHZ900-1.

4.4.2 Connecting the Flush Mounting Frame with Drill Protection, or the Tamper Switch of the Key Safe Column

At factory default settings, terminals 12 and 15 on Connection Board APL-4 are connected by a jumper. This jumper must be removed if the Flush Mounting Frame with Drill Protection EZB-S700-2, or the Tamper Switch of the Key Safe Column are to be integrated in the sabotage monitoring.

Should Flush Mounting Frame EZBS700-2 be utilised without the Tamper Switch of the Key Safe Column, the Drill Protection of the Flush Mounting Frame is to be connected to terminals 12 and 15 on the Connection Board, as well as the 2.2kΩ resistor (colour code: red/red/red), included in the accessory kit of the Flush Mounting Frame, connected to terminals 3 and 4.

Should, in addition to Flush Mounting Frame EZBS700-2, the Tamper Switch of the Key Safe Column be utilised, the Drill Protection of the Flush Mounting Frame is to be connected to terminals 12 and 13, as well as the Tamper Switch connected as N/C contact to terminals 14 and 15. See variants "A" and "B" in Fig. 14 above. The 2.2kΩ resistor (colour code: red/red/red) included in the accessory kit of the Flush Mounting Frame must be connected to terminals 3 and 4 on the Connection Board.

4.4.3 Heating device of the Series FSK700 Fire Brigade Key Safe

The heating resistors are designed for voltages of

- ◆ 12VAC or DC, and
- ◆ 24VAC or DC

Adaption to the actual voltage is performed automatically.

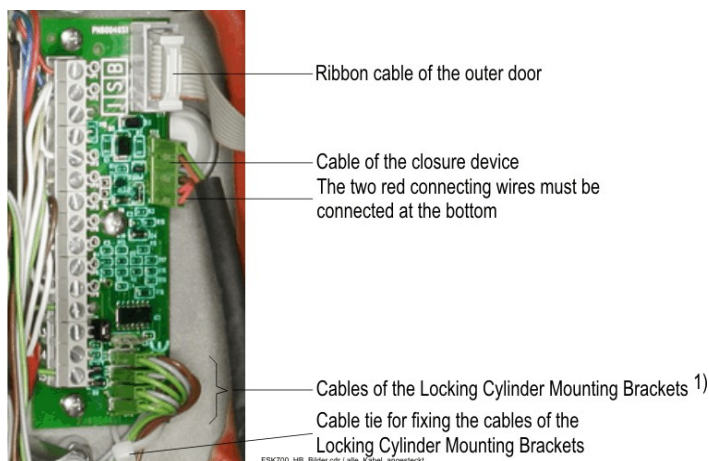
The heating device is controlled by temperature. The temperature at which it will activate is adjustable in stages (see page 28 and onwards in chapter 5.3.1: "Activation temperature of the outer door heating device").



The heating device can also be powered by 12VDC or 24VDC from a fire detection control panel (provided the power supply unit is sufficient). In this case, it is recommended to switch off the heater voltage during a power blackout, so the emergency battery does not get overloaded.

4.5 Connecting the cables of the Key Safe to Connection Board APL-4

Connect the internal cables of the Key Safe to the Connection Board only after all external cables have been placed inside the Key Safe, secured in place using the nylon cable clamp (see page 21 and onwards in chapter 4.2: "Inner view of the Fire Brigade Key Safe"), and connected to the corresponding terminals.



1) See page 25 and onwards in chapter 4.5.3: "Connecting the cables of the Locking Cylinder Mounting Brackets"

Fig. 15: Connecting the closure device, ribbon cable of the outer door, and cables of the Locking Cylinder Mounting Brackets to Connection Board APL-4. Example pictures Key Safe FSK700-2SX, upgraded to keep 4 master keys.

4.5.1 Ribbon cable of the outer door

Following connecting the terminals, connect the ribbon cable of the outer door to connector ST7 on Connection Board APL-4. Place the ribbon cable inside the Key Safe in a way that operating the locking half cylinder(s) does not damage the cable.

4.5.2 Cable of the closure device

Connect the cable of the closure device to connector ST6 on Connection Board APL-4. Ensure that the two red connecting wires are on the bottom side (see Fig. 15 above).

Adaption of the closure device to the voltage of the fire detection control panel (12VDC or 24VDC) is performed automatically.



Should the cable of the closure device not be properly connected to connector ST6 on Connection Board APL-4, the closure device cannot function properly – as a result, the outer door of the Key Safe cannot be opened anymore.



Should the cable of the closure device be connected to connector ST6 with wrong polarity, this can lead to the Connection Board APL-4 becoming defective!

4.5.3 Connecting the cables of the Locking Cylinder Mounting Brackets

	FSK700-2 1 x PHZ	2 x PHZ	FSK700-2SX 3 x PHZ	4 x PHZ	PHZ- install position ¹⁾
ST1					1
ST2					1
ST3					2
ST4					3
ST5					4

... Locking Cylinder Mounting Bracket connected, colour coding (left to right): green - grey - brown
 ... Jumper connected to the left and middle pins
 ... Nothing connected

Fig. 16: Connecting positions of the Locking Cylinder Mounting Brackets on Connection Board APL-4 throughout the upgrade stages of the Series FSK700 Key Safe



The cable leading from the Locking Cylinder Mounting Bracket in Key Safe FSK700-2 is the only cable to be connected to connector ST1 on Connection Board APL-4! When using Key Safe FSK700-2SX, it is imperative that nothing is connected to connector ST1.

Place the cables inside the Key Safe in a way that operating the locking half cylinder(s) does not damage the cables. Fix the cables to the Connection Board using the cable tie included in the accessory kit of the Key Safe, see Fig. 15 above.

4.6 Typical connection diagram of a fire detection control panel and the Fire Brigade Key Safe

The connection between the controlling and monitoring device and the Fire Brigade Key Safe is to be made continuously, as well as preferably in-wall, or protected by other means. Also see the advice on page 20 and onwards in chapter 4: "Connection".

4.6.1 Connection diagram of a system comprising fire detection control panel, Series FSK700 Key Safe, Key Safe Controlling and Monitoring Device AD900-1, and Power Supply Unit NT700-1

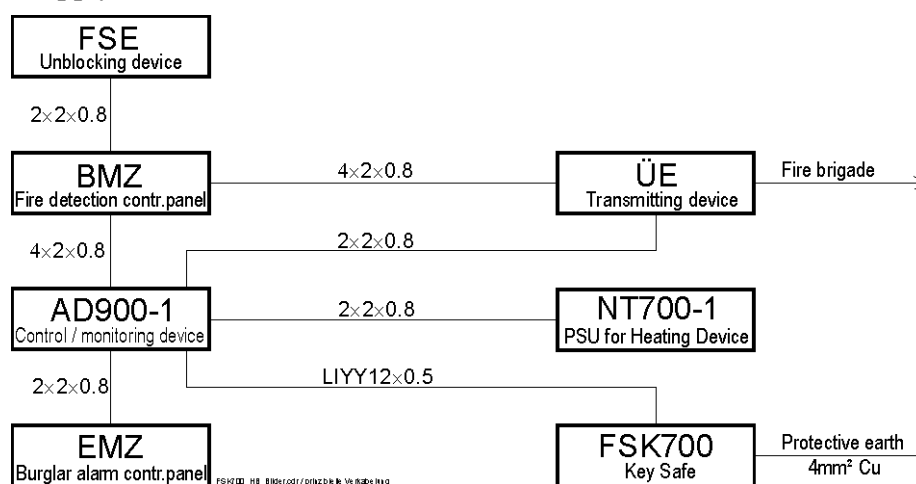


Fig. 17: Typical example connection diagram for connecting a fire detection control panel to

- Series FSK700 Fire Brigade Key Safe,
- Key Safe Controlling and Monitoring Device AD900-1,
- transmitting device,

as well as optional devices

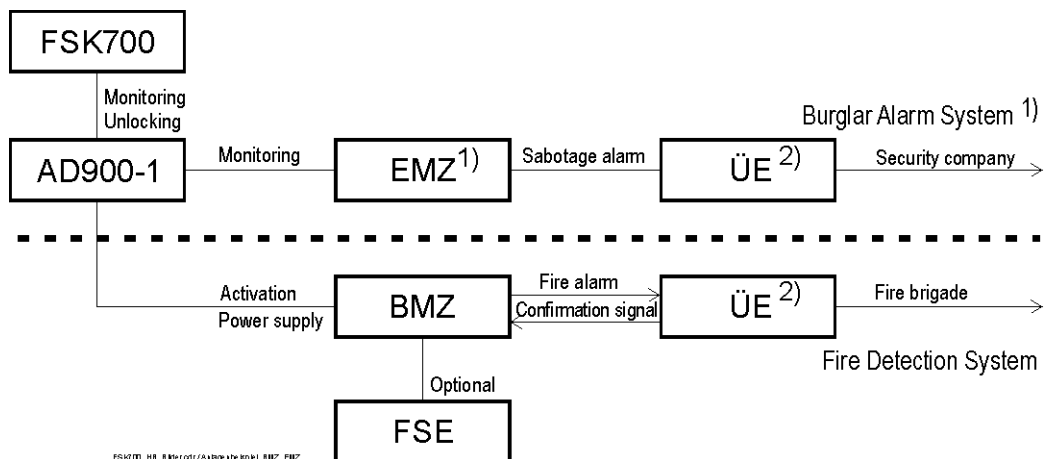
- Unlocking Device FSE/PHZ900-1,
- Power Supply Unit for Heating Device NT700-1
- burglar alarm control panel

Cables such as fire detector cables J-Y(St)Y n \times 2 \times 0.8 or functional endurance cables JE-H(St)H n \times 2 \times 0.8 E30 can be utilised. The actual dimensioning of the cables is to be determined by on-site requirements.

4.6.2 Connection diagram of a system comprising fire detection control panel, burglar alarm control panel, and Fire Brigade Key Safe

The example shows

- ◆ the unlocking of the Fire Brigade Key Safe by the confirmation signal from the corresponding transmitting device, activated by fire alarm, as well as
- ◆ sabotage alarm by the Key Safe Controlling and Monitoring Device AD900-1, either via the burglar alarm control panel, or alternatively, directly alerting the security company.



- 1) Should no burglar alarm control panel be utilised, sabotage alarm by the AD900-1 is transmitted directly to the security company via the transmitting device. In this case, all devices must meet the requirements specified for the fire alarm control system.
- 2) Instead of two separate transmitting devices, it is possible to utilise a transmitting device that is able to transmit both signals. This combined transmitting device must meet the requirements specified for the burglar alarm system.

Fig. 18: Typical interconnection of Fire Brigade Key Safe, burglar alarm control panel, and fire detection control panel

4.6.3 Connection diagram of a system comprising burglar alarm control panel and Fire Brigade Key Safe, without fire detection control panel

The example shows

- ◆ the burglar and sabotage alarm by the Key Safe or the Key Safe Controlling and Monitoring Device AD900-1, transmitted to the transmitting device for the security company via the burglar alarm control panel, as well as
- ◆ the unlocking of the Fire Brigade Key Safe by the confirmation signal from the transmitting device, and/or due to additional inputs (e.g., by a control point or local code input)

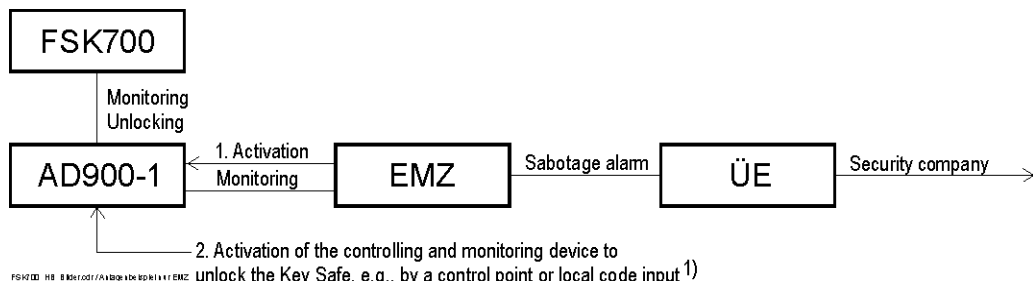


Fig. 19: Typical interconnection of Fire Brigade Key Safe and burglar alarm control panel, without fire detection control panel

5 Commissioning



The locking bolt supplied in the accessory kit must only be installed in the outer door after both the Fire Brigade Key Safe and the connected controlling and monitoring device are fully operational! Should the electrical unlocking device not be fully operational upon closing the outer door with installed locking bolt, the Key Safe can only be opened again by means leading to the destruction of some of its componentry (e.g., outer door, Drill Protection Board). Additional advice can be found on page 29 and onwards in chapter 5.4: "Commissioning instructions".

5.1 General

Commissioning, inspection, and maintenance of the Series FSK700 Fire Brigade Key Safe is to be performed by a specialist company trained and authorised by MEP-Gefahrenmeldetechnik GmbH or their local representative (see page 7 and onwards in chapter 1.6: "Important advice for the operator and specialist installer").

All tasks performed are to be entered in the report book of the corresponding alarm system.

5.2 Notes on insurance protection

The keeping of keys in a Fire Brigade Key Safe results in an increased level of danger, which the insurance company must be informed of.



If the key depot is not VdS-certified and/or is not installed, operated and maintained according to the VdS-Richtlinien für Schlüsseldeposits, Planung, Einbau und Instandhaltung (VdS 2350), it is possible that no insurance protection is available for damages due to burglary, in case the building has been opened using the (real) key taken from the key depot.

5.3 Configuration with jumpers

5.3.1 Activation temperature of the outer door heating device

The heating device for the outer door can be set to activate at a temperature of +10°C or +5°C, as well as set to continuous operation by moving or removing the jumper on the Door Protection Board, as pictured in Fig. 20 below. At factory default settings, the heating device is set to activate at a temperature of +10°C.

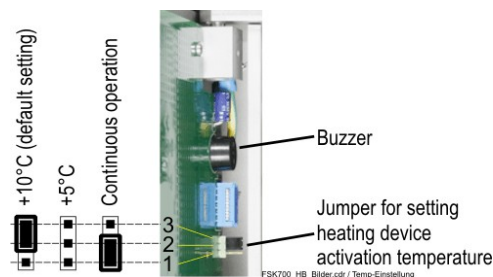


Fig. 20: Setting the activation temperature of the heating device on the Door Protection Board



To be able to move the jumper, the Door Protection Board must be removed from the outer door. It is essential that the Key Safe is rendered currentless (e.g., by switching off the voltage of the controlling and monitoring device and the heating device) prior to this!

5.3.2 Acoustic warning signal when missing master key

If the Series FSK700 Key Safe is closed after the fire alarm has been reset, and not all master keys have been inserted correctly, the Key Safe's integrated buzzer will sound as warning.



This function is only available if the Key Safe is connected to the Key Safe Controlling and Monitoring Device AD900-1 by MEP-Gefahrenmeldetechnik GmbH.

Should this function be undesired, Jumper JP1 must be removed from Connection Board APL-4 (see Fig. 13 on page 21).

5.3.3 Automatic deactivation of the release magnet when outer door is open

The electromagnetic unlocking device of the outer door is designed for a duty cycle of 100%. During emergency operation, the release magnet is activated, and will only be deactivated again once normal condition is restored (at factory default settings).

To conserve energy (drawn from the emergency battery during a power blackout) during emergency operation, it is possible to automatically deactivate the release magnet upon opening the outer door. When the outer door is closed hereafter, – provided fire alarm is still active – the release magnet will be reactivated, and the door can be opened again. To enable this energy conservation function, Jumper JP2 must be connected to both pins (the jumper is connected only to one pin at factory default settings) on Connection Board APL-4 (see Fig. 13 on page 21).

5.4 Commissioning instructions

The following instructions for commissioning require that, before starting,

- ◆ **the locking bolt has not been installed yet,**
- ◆ all locking cylinders, as well as the inner door have been installed, and the corresponding keys are readily available. Should this not be possible at the time of commissioning, fitting substitute locking cylinders or locks that will be replaced at a later time must be utilised instead.
- ◆ Key Safe FSK700-2, or FSK700-2SX, respectively, has been connected to a VdS-certified controlling and monitoring device,



If the Key Safe is connected not to the Key Safe Controlling and Monitoring Device AD900-1 by MEP, but to a controlling and monitoring device by another manufacturer, some of its functionality can differ from the way described herein.

- ◆ the Flush Mounting Frame with Drill Protection has been connected (if applicable),
- ◆ the Tamper Switch of the Key Safe Column has been connected, and the top cover has been properly installed (if applicable),
- ◆ ample supply voltage for operation of the Key Safe is available and has been properly connected.



The controlling and monitoring device must not necessarily be connected to a fire detection control panel or a burglar alarm control panel during commissioning. However, a suitable power supply must be available.

During commissioning, the steps listed below must be followed in order!

1 Checking the functioning of the closure device

With the outer door open and without locking bolt, verify the proper functioning of the closure device by repeatedly activating it using the controlling and monitoring device. The locking angle must thereby move upwards.



If Jumper JP2 is connected to both pins on Connection Board APL-4, the closure device is only activated while the outer door is closed. In this case, the closed state must be simulated by triggering the outer door closing contact.

Should any problems that limit the proper functioning of the closure device arise, it is imperative that these problems are resolved before the installation of the locking bolt!

2 Installing the locking bolt in the outer door

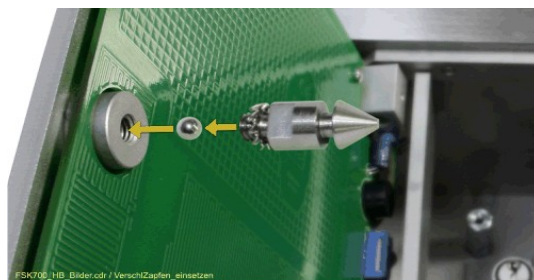


Fig. 21: Inserting the locking bolt along with the steel ball in the outer door

Place the steel ball included in the accessory kit of the Key Safe – serving to increase security against drilling – into the threaded hole designated for the locking bolt in the outer door, then insert the locking bolt (see Fig. 21 above) and fix it in the outer door.



Two types of locking bolts, with and without undetachable washer are in use. Both types are equal in function. However, the washer should never be removed from a locking bolt with undetachable washer, and neither should a washer be attached to a locking bolt without washer!



Should the proper functioning of the closure device have not been verified, the outer door must not be closed after installing the locking bolt, since it would only be possible to open it again by destroying the outer door or the Door Protection Board. Secure the door against unintentional closing in this case by, e.g., wrapping a 4.8mm cable tie around the locking bolt.

3 Checking locking and unlocking

Check the outer door locking/unlocking electrically and mechanically for smooth action, as well as for proper and reliable opening.

4 Checking the outer door heating device

The proper functioning of the heating device can be verified by measuring the heater current (for nominal values, see the section "Current with heating device activated" in Table 3 on page 34).



Should the ambient temperature be higher than the set activation temperature, the function of the temperature controlling device must be temporarily inhibited. Slightly raise the jumper (without disconnecting it entirely) used to set the activation temperature of the heating device, and connect pins 1 and 2 for the duration needed to measure the current (see Fig. 20 on page 28). Remember to press the jumper back down again after completing the measurement.

5 Normal condition of the Key Safe

Switch the Key Safe to normal condition by

- correctly placing all master keys,
- locking the inner door and removing the key,
- closing the outer door, and
- terminating the confirmation signal.

The electromagnet of the closure device is rendered currentless in this state, the outer door cannot be opened by pulling, and the AD900-1 displays only 'Betrieb' (*Operating*).

6 Testing sabotage alarm

Activate sabotage alarm (i.e., by pressing button TA1 'Prüfung' (*Test*) on the Key Safe Controlling and Monitoring Device AD900-1).

The corresponding terminals of the controlling and monitoring device receive an alarm signal, and the AD900-1 displays 'FSK-Alarm' (*Key Safe alarm*).

7 Simulating fire alarm

Simulate fire alarm while the Key Safe is in normal condition (i.e., by simulating the confirmation signal by pressing button TA4 'Auslösung' (*Activation*) on the AD900-1). The outer door is electromagnetically unlocked thereby, and the AD900-1 displays 'FSK entriegelt' (*Key Safe unlocked*). The outer door must not open by itself.

- Open the outer door, open the inner door, and remove the/all master keys.
- The Key Safe Controlling and Monitoring Device additionally displays 'Objektschlüssel entnommen' (*Master key removed*).

8 Testing the acoustic warning signal

Verify the acoustic warning signal (see page 28 and onwards in chapter 5.3.2: "Acoustic warning signal when missing master key"). The confirmation signal must be terminated for this purpose.

- Terminate the fire alarm previously activated in step 7,
- at least one master key must remain removed from the Key Safe,
- close the inner door and the outer door.

The buzzer installed in the Key Safe will sound, provided Jumper JP1 is connected, and the AD900-1 displays both 'FSK entriegelt' (*Key Safe unlocked*) and 'Objektschlüssel entnommen' (*Master key removed*).

The outer door has not been locked – it can be opened again. The buzzer will be deactivated during the time the outer door remains open.

9 Testing precautionary measures against sabotage

Start the preparation for this test by disconnecting the wires connected to terminals 1 and 2 on the Key Safe from the controlling and monitoring device (terminals 1 and 2 on the AD900-1), insulate them, and measure the resulting resistance between the two terminals of the Key Safe. The nominal value is 2.2k Ω . This value must change to approximately 0 Ω , 1.1k Ω , or >10M Ω during the following steps.

Verify the proper functioning of all connected protective measures against sabotage by – starting from step 8 –

- removing the inner door angle along with the inner door (see page 16 and onwards in chapter 3.5.1: "Removal of the inner door angle"),
- reinserting the previously removed master keys and turning them to resting position
- simulating locking of the outer door by pressing down the tamper switch with an appropriate tool (\rightarrow 2.2k Ω), and while in this state, sequentially
- turning a master key out of resting position (\rightarrow >10M Ω), and back again,
- connecting terminals 3 and 4 on the Connection Board (\rightarrow 0 Ω or, when using Flush Mounting Frame EZBS700-2 \rightarrow 1.1k Ω), and disconnecting them again,
- if using the Flush Mounting Frame with Drill Protection EZBS700-2: connecting terminals 12 and 15 on the Connection Board (\rightarrow 1.1k Ω), and disconnecting them again,
- if using the Key Safe Column with Tamper Switch: triggering the Tamper Switch (\rightarrow >10M Ω), and returning it to normal position (e.g., by lifting the top cover, then reinstalling it).

Afterwards, release the tamper switch of the Key Safe, reconnect the previously disconnected wires, and reinstall the inner door angle.

10 Returning the Key Safe to normal condition

The Key Safe is returned to normal condition by

- correctly inserting all master keys,
- closing the inner door and removing the key,
- closing the outer door, and
- terminating the confirmation signal (this occurs automatically after approximately 3 minutes during the activation test executed by pressing button TA4 on the Key Safe Controlling and Monitoring Device AD900-1).

The displays 'FSK entriegelt' (*Key Safe unlocked*) and 'Objektschlüssel entnommen' (*Master key removed*) on the Key Safe Controlling and Monitoring Device are turned off, only the display 'Betrieb' (*Operating*) remains on.

The electromagnet of the closure device is rendered currentless.

The outer door cannot be opened anymore.

11 Fire alarm without opening the outer door of the Key Safe

The Key Safe is – starting from step 10 – in normal condition.

- Simulate the confirmation signal.

The controlling and monitoring device 'FSK entriegelt' (*Key Safe unlocked*), and the outer door is unlocked. The door must, however, not open by itself.

- Terminate the confirmation signal.

The display 'FSK entriegelt' (*Key Safe unlocked*) is turned off on the Key Safe Controlling and Monitoring Device – the Key Safe is returned to normal condition, meaning the outer door is locked again.

Finally, the concluding functional check of the Key Safe, the controlling and monitoring device, and the fire detection control panel is to be performed in the presence of the fire brigade, the operator, and – if required – an expert witness.

6 Inspection, maintenance, service

This chapter contains advice for a trained service technician regarding inspection and maintenance tasks to be performed on a Series FSK700 Key Safe, as well as information about possible malfunctions, their causes and means of correction.



VdS-Richtlinie 2350, 6.1 Allgemeines: Key depots, key depot controlling and monitoring device, unblocking device, and device parts of the controlling and monitoring device are to be inspected each yearly quarter, and maintained at least once a year. At the minimum, all tasks according to Anhang C "Instandhaltungsplan" of Richtlinie 2350 must be performed.

All maintenance tasks are to be entered in the report book of the alarm system.



To perform some of the following inspection, maintenance and service tasks, the outer door of the Fire Brigade Key Safe must be opened with the key in possession of the local fire brigade or public safety services. For this, the presence of local authorities or the fire brigade is generally required! These requirements may, however, differ regionally.

6.1 Inspection, maintenance

During inspection or maintenance, the conditions listed in the table below are to be checked.

	Check	Steps to take, if necessary	
Inspection and maintenance	1	Key Safe undamaged on the outside	Clean the outer surface ¹⁾
	2	Drill holes for water outlet on the bottom side must be free of residue	Clean
	3	Outer door: alignment, clearance, flexibility	Readjust, grease the bearings
	4	Function of the closure device - detent of the locking bolt - tamper switch - smooth action of the locking angle - function of the magnetic door opening device - proper self-aligning of the closure device	Clean and, if necessary, grease sliding surfaces, replace faulty parts
	5	Door Protection Board undamaged (no scratches, corrosion, connection cable undamaged)	If functioning is impaired: replace
	6	Function testing, including displays on the controlling and monitoring device (excluding opening the inner door and removing keys)	Fault correction
Maintenance	7	Fixedness of the Key Safe inside the Flush Mounting Frame	Tighten nuts, correct constructional problems
	8	Connection cables undamaged, connectors connected correctly, terminals fixed tightly	Replace damaged parts (such as crushed cables, corroded componentry)
	9	Inner door: clearance, bolt end stop, flexibility	Readjust, grease the bearings
	10	Locking Cylinder Mounting Bracket(s): - function of the micro switch - smooth action	Clean and grease, replace faulty parts
	11	Smooth action of locks and locking cylinders	Apply precautionary measures
	12	Measure the heater current (see page 29 and onwards in chapter 5.4, section 4 Checking the outer door heating device)	Eliminate the cause (e.g., heating power supply), replace faulty parts

	Check	Steps to take, if necessary
13	Measure the power consumption of the Key Safe with outer door closed. Nominal values for power consumption can be found in Table 3 on page 34.	Fault correction if the measured value differs notably from the nominal value
14	Complete function testing in the presence of the fire brigade, including removal of the master key(s), and attempting to lock the Key Safe without correctly inserted key(s).	Fault correction

¹⁾ Advice on cleaning the outer surface can be found on page 8 and onwards in chapter 1.7: "Cleaning the Series FSK700 Fire Brigade Key Safe"

Table 2: *Parts to be checked during inspection or maintenance*
Inspection: steps 1 – 5
Maintenance: steps 7 – 14

6.2 Advice on fault correction of electrical parts

The following list of important electrical values should simplify fault correction of electrical parts of the Fire Brigade Key Safe. All measurements can be made on the appropriate terminals on the Key Safe Controlling and Monitoring Device. The presence of local authorities or the fire brigade is not required for this purpose.



To be able to measure resistances, the appropriate wires must be disconnected from the Key Safe Controlling and Monitoring Device!



The values specified are applicable when using the Key Safe Controlling and Monitoring Device AD900-1 by MEP. Values may differ when using a controlling and monitoring device by another manufacturer!

Terminals on AD900-1	FSK700	State	Nominal value
1 / 2	1 / 2	Voltage during normal condition	2.5VDC +/-5%
		Voltage in the event of sabotage (wire break)	>3.0VDC
		Voltage in the event of sabotage (short circuit)	<1.7VDC
		Resistance during normal condition	2.2kΩ +/- 5%
		Resistance in the event of sabotage (wire break)	>3.0kΩ
		Resistance in the event of sabotage (short circuit)	<1.3kΩ
3 / 4	5 / 6	Voltage during normal condition	0VDC
		Voltage when unlocked	10 to 30VDC
		Current when unlocked, outer door closed	U _B =12V: approx. 220mA U _B =24V: approx. 140mA
5 / 6	7 / 8	Voltage with outer door closed	U _B =12V: > 8VDC U _B =24V: > 16VDC
		Voltage with outer door open	<0.5VDC
		Resistance with outer door closed	>10MΩ
		Resistance with outer door open	<10Ω
23 / 24	9 / 10	Voltage with heating device activated	12 or 24VDC/AC +/-15%
		Current with heating device activated	U _H =12V: approx. 500mA U _H =24V: approx. 250mA

Terminals on AD900-1 FSK700		State	Nominal value
25 / 2	11 / 2	Voltage with master key inserted	$U_B=12V: > 8VDC$ $U_B=24V: > 16VDC$
		Voltage with master key removed	$<0.5VDC$
		Resistance with master key inserted	$>10M\Omega$
		Resistance with master key removed	$<10\Omega$

Table 3: Overview of the various states and corresponding nominal values
 U_B ... Operating voltage of the Key Safe Controlling and Monitoring Device
 U_H ... Heater voltage

7 Technical specifications

7.1 Fire Brigade Key Safe FSK700-2, FSK700-2SX

Material	
Case	Stainless steel 5mm, sandblasted
Door, door frame	Stainless steel 5mm, finely polished
Cable insertion opening	Back wall 1× M20×1.5, 1× M25×1.5
Cable connectors	Screw terminals (max. 1.5mm ²)
Number of master keys keepable	
FSK700-2	1
FSK700-2SX	2, upgradable to up to 4
Requirements for master key locking cylinders ¹⁾	
Basic cylinder length	30.0 ... 31.5mm (total length 40.0 ... 41.5mm) ²⁾
Key bit position	0°
VdS 2156	minimum Class A
Outer door closure device	
Operating voltage	10.0 ... 30.0VDC, 100% duty cycle
Power consumption (typical)	220mA at 12V, 140mA at 24V
Outer door heating device	12V or 24V (AC or DC) +/-15% / approx. 6W
Adaption to current	automatically
Activation temperature settings (typ.)	+10°C (factory default) / +5°C / continuous op.
Resistance of the sabotage circuit	2.2kΩ +/-5%
VdS Certification No.	G 199055
IP Code of the terminal compartment	EN 60529 - IP 56
Operating temperature	-25°C to +60°C
Relative humidity	max. 95% at 40°C (non-condensing)
Dimensions W × H × D	280 × 264 × 145 (mm)
Weight without Flush Mounting Frame and inner door	approx. 16kg

- ¹⁾ The locking cylinder is not part of the product contents of the Fire Brigade Key Safe. It is either provided as part of the locking mechanisms used on-site, or available as an accessory from the manufacturer (see page 9 and onwards in chapter 1.9: "Product overview").
- ²⁾ Short cylinders with a basic cylinder length of 25.0 ... 26.5mm (total length 35.0 ... 36.5mm) can be used, if they meet the safety requirements according to VdS 2156, Class A.

7.2 Inner doors

Applicable for all inner doors:

Material	Stainless steel 5mm, sandblasted
Dimensions W × H	108 × 50 (mm)

7.2.1 Inner Door for FSK700-2/2SX/PHZ/30.5mm ITA-2

Installed lock for locking cylinder ¹⁾	Basic length 30.0 ... 31.5mm, Total length 40.0 ... 41.5mm, Key bit position 45° (standard)
Security requirements	VdS 2156 Class B
Weight	approx. 0.5kg

- ¹⁾ The locking cylinder is not included with the inner door.

7.2.2 Inner Door for FSK700-2/2SX/PHZ/35.5mm ITA-3

Installed lock for locking cylinder ¹⁾	Basic length 35.0 ... 36.5mm, Total length 45.0 ... 46.5mm, Key bit position 45° (standard)
Security requirements	VdS 2156 Class B
Weight	approx. 0.5kg

- ¹⁾ The locking cylinder is not included with the inner door.

7.2.3 Inner Door for FSK700-2/2SX/DBUS ITB-2

Prepared for lock type
Weight (without lock)

Double-bit variable lock type 2 and type 2005
approx. 0.4kg

7.2.4 Inner Door for FSK700-2/2SX/DBUS ITF-2

Prepared for lock type
Weight (without lock)

Double-bit variable lock type 70091/70092
approx. 0.4kg

7.3 Flush Mounting Frames**7.3.1 Flush Mounting Frame EZ700-2**

Material

Back wall

Sheet steel 2mm, zinc-coated

Sides

Sheet steel 1.5mm, zinc-coated

Protective earth connection

4mm²

Dimensions W × H × D

275 × 245 × 160 (mm)

Weight

approx. 3.3kg

7.3.2 Flush Mounting Frame with Drill Protection EZBS700-2

Material

Back wall

Sheet steel 3mm, zinc-coated

Case

Sheet steel 1mm, zinc-coated

Resistance of the sabotage circuit

1.1kΩ +/-5%

Protective earth connection

4mm²

Dimensions W × H × D

275 × 245 × 160 (mm)

Weight

approx. 3.5kg

7.4 Locking Cylinder Mounting Bracket for FSK700-2SX PHZAW700-2S1

Material

Stainless steel 1.0mm

Monitoring of the master key

Micro switch, 3-pin

Connection type

Plug connector

7.5 Auxiliary Locking Cylinder for FSK700-2/2SX PHZ700-2

Locking half cylinder, common key

Basic cylinder length

26.5mm (total length 36.3mm)

Key bit position

0°

Security requirements

VdS 2156, Class A

Number of keys

1, plus one quick link

Weight

approx. 110g

7.6 Weather Protection Hood for FSK700-2/2SX WSD-FSK

Material

Stainless steel 1.0mm, finely polished

Dimensions

287 × 267 × 55 (mm)

Weight

approx. 0.5kg

8 Certifications

8.1 VdS Certificate

Zertifikat

Certificate

Anerkennung

von Bauteilen und Systemen

Approval

of Components and Systems



Inhaber der Anerkennung
Holder of the Approval
MEP Gefahrenmeldetechnik GmbH
Feldstraße 18 a
09509 Pockau

Die Anerkennung
umfasst nur das angegebene Bauteil/System in der zur Prüfung eingereichten Ausführung

- mit den Bestandteilen nach Anlage 1,
- dokumentiert in den technischen Unterlagen nach Anlage 2,
- zur Verwendung in den angegebenen Einrichtungen der Brandschutz- und Sicherungstechnik.

Bei der Anwendung des Gegenstandes der Anerkennung sind die Hinweise nach Anlage 3 zu beachten.

Das Zertifikat darf nur unverändert und mit sämtlichen Anlagen vervielfältigt werden. Alle Änderungen der Voraussetzungen für die Anerkennung sind der VdS-Zertifizierungsstelle – mitsamt den erforderlichen Unterlagen - unverzüglich zu übermitteln.

Anerkennungs-Nr. Approval No.	Anzahl der Seiten No. of pages	gültig vom (TT.MM.JJJJ) valid from (dd.mm.yyyy)	gültig bis (TT.MM.JJJJ) valid until (dd.mm.yyyy)
G 199055	5	01.06.2013	31.05.2017

Gegenstand der Anerkennung
Subject of the Approval
Schlüsseldepot
FSK 700 - 2 / FSK 700 - 2SX

This Approval
is valid only for the specified component/system as submitted for testing

- together with the parts listed in enclosure 1
- documented in the technical documents according to enclosure 2
- for the use in the specified fire protection and security installations.

When using the subject of the approval the notes of enclosure 3 shall be observed.

This certificate may only be reproduced in its present form without any modifications including all enclosures. All changes of the underlying conditions of this approval shall be reported at once to the VdS certification body including the required documentation.

Verwendung
Use
in Gefahrenmeldeanlagen

When using the subject of the approval
the notes of enclosure 3 shall be observed.

This certificate may only be reproduced in its present form without any modifications including all enclosures. All changes of the underlying conditions of this approval shall be reported at once to the VdS certification body including the required documentation.

Anerkennungsgrundlagen
Basis of the Approval
VdS 2105:2005-11
VdS 2110:2011-01
VdS 2344:2012-07

VdS Schadenverhütung GmbH
Zertifizierungsstelle
Amsterdamer Str. 174
D-50735 Köln

Ein Unternehmen des Gesamtverbandes der Deutschen Versicherungswirtschaft e.V. (GDV), durch die DAkkS akkreditiert als Zertifizierungsstelle für Produkte in den Bereichen Brandschutz und Sicherungstechnik

A company of the German Insurance Association (GDV) accredited by DAkkS as certification body for fire protection and security products

Köln, den 08.05.2013



Reinermann
Geschäftsführer
Managing Director



i. V. Grundmann
Leiter der Zertifizierungsstelle
Head of Certification Body



Fig. 22: VdS Certificate G 199055

8.2 EC Declaration of Conformity



	
EG - KONFORMITÄTSERKLÄRUNG EC - DECLARATION OF CONFORMITY	
Wir, We,	MEP-Gefahrenmeldetechnik GMBH (MEP) Feldstraße 18a, D-09509 Pockau
erklären, dass das Produkt declare that the product	Feuerwehrschlüsselkasten Fire Brigade Key Box FSK700-2/2SX
im Originalzustand, bei bestimmungsgemäßem Einbau und Betrieb in in original condition, intended installation and use in	Brandmeldeanlagen Fire detection and fire alarm systems
gemäß den Bestimmungen der Richtlinien following the provisions of directives	EMV2004/108/EG (EMV-Richtlinie) EMV2004/108/EC (EMC Directive)
mit folgenden Normen übereinstimmt: is in conformity with the following standards:	
EN 55022:2006 + A1:2007 Einrichtungen der Informationstechnik: Funkstöreigenschaften – Grenzwerte und Messverfahren. Information technology equipment: Radio disturbance characteristics – Limits and methods of measurement.	
EN 50130-4:1995 + A1:1998 + A2:2003 + Korr.2003 Alarmanlagen-Teil 4: Elektromagnetische Verträglichkeit; Produktfamilienorm: Anforderungen an die Störfestigkeit von Anlagen- teilen für Brand- und Einbruchmeldeanlagen sowie Personen-Hilferufanlagen. Alarm systems Part 4: Electromagnetic compatibility; Product family standard: Immunity requirements for components of fire, intruder and alarm systems.	
Pockau, 02.02.2010	
	Dipl. Ing. Helmut Friedl Geschäftsführer / CEO MEP-Gefahrenmeldetechnik GMBH
Konformitätserklärung_FSK700-2.odt	

Fig. 23: EC Declaration of Conformity