

SIEMENS

FC700A

Fire detection system

Installation / Hardware Commissioning

Fire & Security Products

Siemens Building Technologies

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1 About this document

Purpose

This document describes the installation and commissioning of the hardware modules of the control unit FC700A. The consistent adherence to these instructions is a prerequisite for a safe application.

Target group

This product documentation and the work instructions are aimed at the following persons, who have a particular function and have the corresponding training and qualification.

Group of persons	Activity	Qualification
Installation personnel	They install product, device or system components and subsequently carry out a general performance check.	Professional training in the field of building automation or electrical installations.
Commissioning personnel	The configuration of the products, devices or systems for specific customers at the place of installation. They check serviceability and officially clear the product, device or system for use by the operator / customer. They are also responsible for troubleshooting.	They have had the training appropriate to their function and to the commissioning of the products, devices or systems and have attended the technical training courses for commissioning personnel.

Reference documents

Information in	Document
007831	Hardware description
007836	Planning
007827	Installation housing H26... /H28...
007832	Visualizer Customizing / End user (not yet available)
007835	Operating instructions
007833	Maintenance instructions
007894	Templates for inscription stripes
007895	Operating platform for Tools

Work and operational safety



Before personnel begin work on the system they must have read and understood the related operating instructions, in particular chapter 2 "Safety regulations".

Disregard of the safety regulations

Before they are delivered, products are tested to ensure they function correctly when used properly. Siemens disclaims all liability for damage or injuries caused by the incorrect application of the instructions or disregard of warnings of danger contained in the documentation. This applies in particular to:

- Personal injuries or damage caused by improper use and incorrect use;
- Personal injuries or damage caused by disregarding safety instructions in the documentation or on the product;
- Personal injuries or damage caused by poor maintenance or a lack of maintenance.

Conventions

(...)	Additional information
..)	Notes
->	Details see page, chapter or document

Document identification

Place		Signification
Title page		<ul style="list-style-type: none">– System names– Product type– Document purpose
Last page	bottom left bottom right	<ul style="list-style-type: none">– The document number consists of: Language, number, index– Version date– Manual– Register

Modification index

Version	Date	Brief description
007828_a_en_--	11. 2003	First edition

2 Safety regulations

This chapter describes the danger levels and the relevant safety regulations applicable for the use of our products. Please read the work instructions as well as the chapter "About this document" thoroughly before beginning any work.

2.1 Signal words and symbols

2.1.1 Signal words and their meaning

The danger level that is, the severity and probability of danger are indicated by the signal words listed below. Non-observance may lead to the consequences indicated:

DANGER

Imminent danger!

- May cause serious bodily injury or danger to life!

WARNING

Dangerous situation!

- May cause serious bodily injury or danger to life!

CAUTION

Possibly dangerous situation!

- May cause light injuries!

NOTE

Possibly harmful situation!

- May cause damage to the product or to objects in the immediate vicinity of the product!

2.1.2 Symbols and their meaning

The symbols listed below indicate the nature and origin of the danger.



Signal word	General danger
--------------------	----------------



Signal word	Electrical voltage
--------------------	--------------------

Example for a danger warning



DANGER External voltage	Disconnect the module from power supply.
--	--

2.1.3 Classification and meaning of additional symbols



Tips and information



Refers to extremely important or critical decisions to be taken into account before continuing the work.

2.2 Safety-relevant working instructions

Country-specific standards

The products are developed and produced in compliance with the relevant international and European safety standards. Should additional country-specific, local safety standards or regulations concerning project planning, assembly, installation, operation and disposal of the product apply in the place of operation, then these standards or regulations must also be taken into account in addition to the safety regulations mentioned in the product documentation.

Electrical installations



DANGER
Work on electrical installations

Any work on electrical installations may only be carried out by qualified electricians or instructed persons working under the guidance and supervision of a qualified electrician, in accordance with the electro technical regulations.

- Control units must be disconnected from the power supply during commissioning or maintenance work.
- Terminals with an external voltage supply must be provided with a sign "DANGER - External voltage".
- Mains leads to the control unit must be installed separately and provided with a clearly marked fuse.
- Earthing must be carried out in compliance with local safety regulations.
- When work is carried out in explosion-hazardous areas, the appropriate safety precautions must be taken.

Assembly, installation, commissioning and inspection work

- If any tools or accessories such as ladders are required, safe and suitable devices must be used.
- Prevention of spurious tripping of the remote transmission must be assured.
- Always inform the fire brigade before testing the remote transmission.
- The activation of fire control installations for test purposes must not cause damage to the system or parts thereof.
- Fire control installations must only be activated after the test has been completed and the system has been handed over to the customer.
- Third party systems or devices must only be activated in the presence of the responsible person.
- When work on management stations and system terminals are performed, the safety regulations of the connected sub-systems must be observed. This especially applies when switching-off system components.
- In the case of extinguishing systems, always use the "General installation instructions" as a guideline. This guideline is available on request.

Testing the product operability

- Evacuate and cordon off extinguishing sector.
- Inform people about the possibility of occurring fog and noise.
- Inform people before testing of alarm devices; take the possibility of panic reactions into account.
- Inform the alarm and fault receiving stations connected to the system before running the tests.

Modifications to the system design and the product

Modifications to a system or to individual products may cause faults or malfunctioning. Please request written approval from us, and the relevant authorities concerning intended system modifications and system extensions.

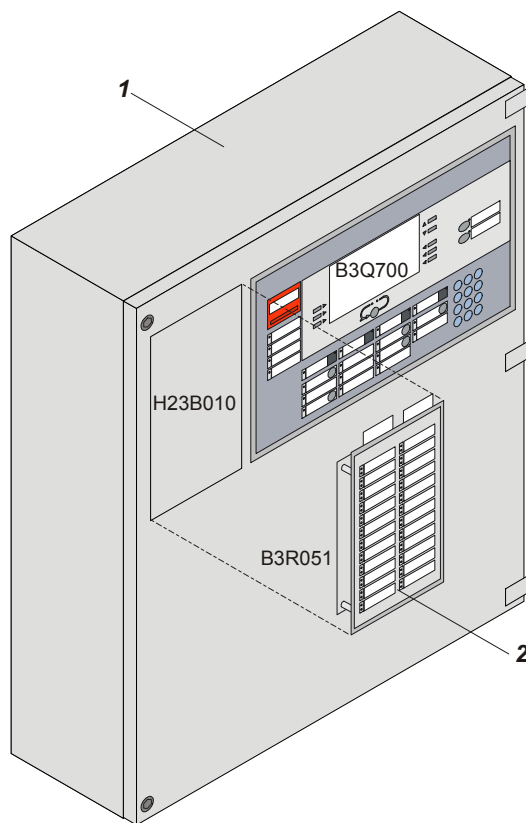
Modules and spare parts

- Locally procured modules and spare parts must comply with the technical specifications laid down by the manufacturer. This compliance is always ensured for original spare parts supplied by us.
- Only use fuses with the specific fuse characteristics.
- Wrong battery types and improper battery exchange may introduce the danger of explosion. Only use the specified battery type or an equivalent battery type recommended by the manufacturer.
- Batteries require environmentally safe disposal. They must be handed in at the local collecting points.
- Please take into account that the extinguishing agent cylinders are pressurized and must be exchanged in compliance with the local safety regulations.

3 Installation

- Housing set FC700A (H38G320)
 - Fire detection system FC700A as compact control unit for up to 10 plug-in modules, with built-in operating terminal (B3Q700).

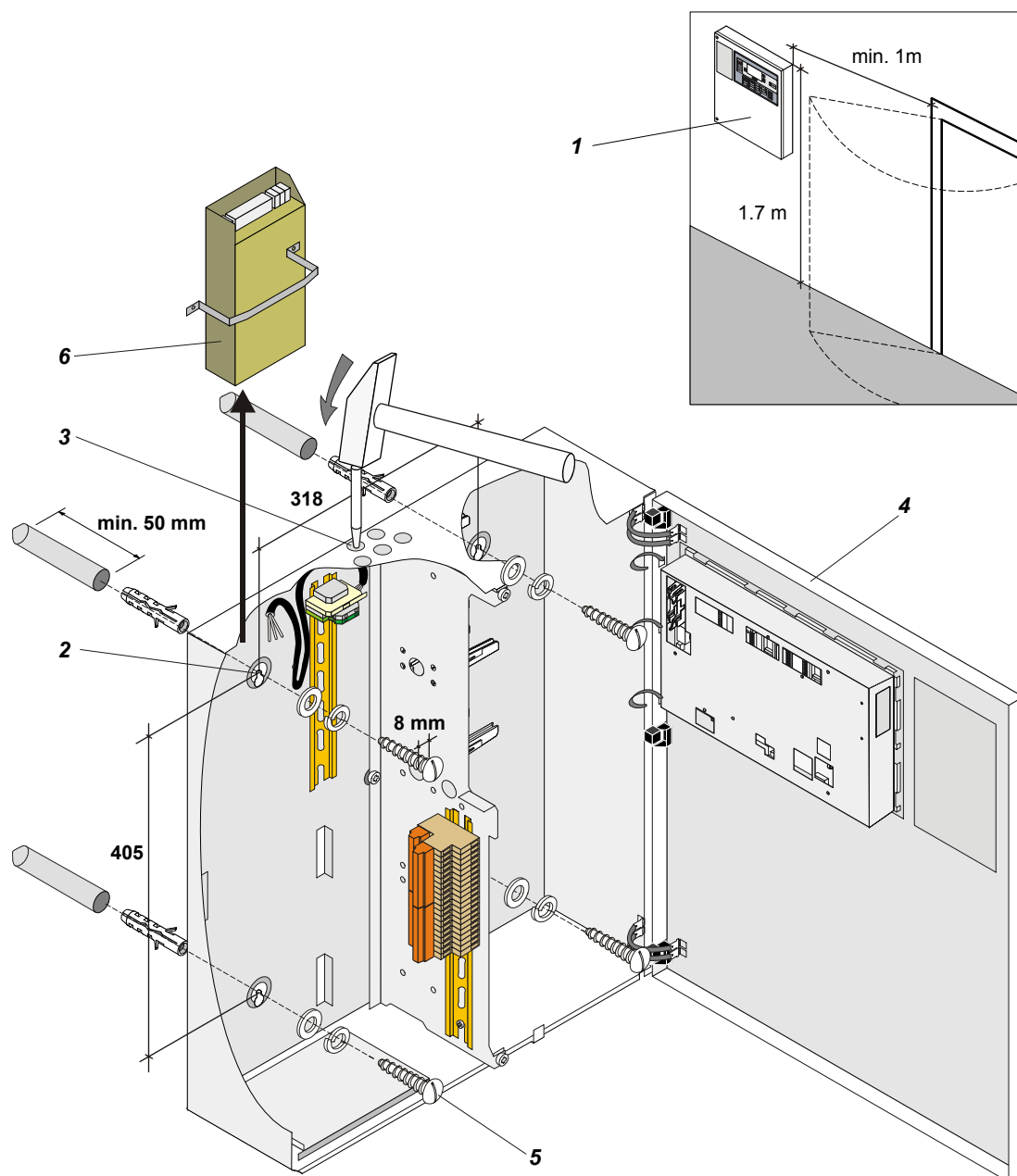
3.1 Space for parallel indicator panel



Legend:

- 1 Housing set incl. control terminal (B3Q700) and cover plate H23B010
- 2 Parallel indicator panel B3R051 as option

3.2 Housing installation

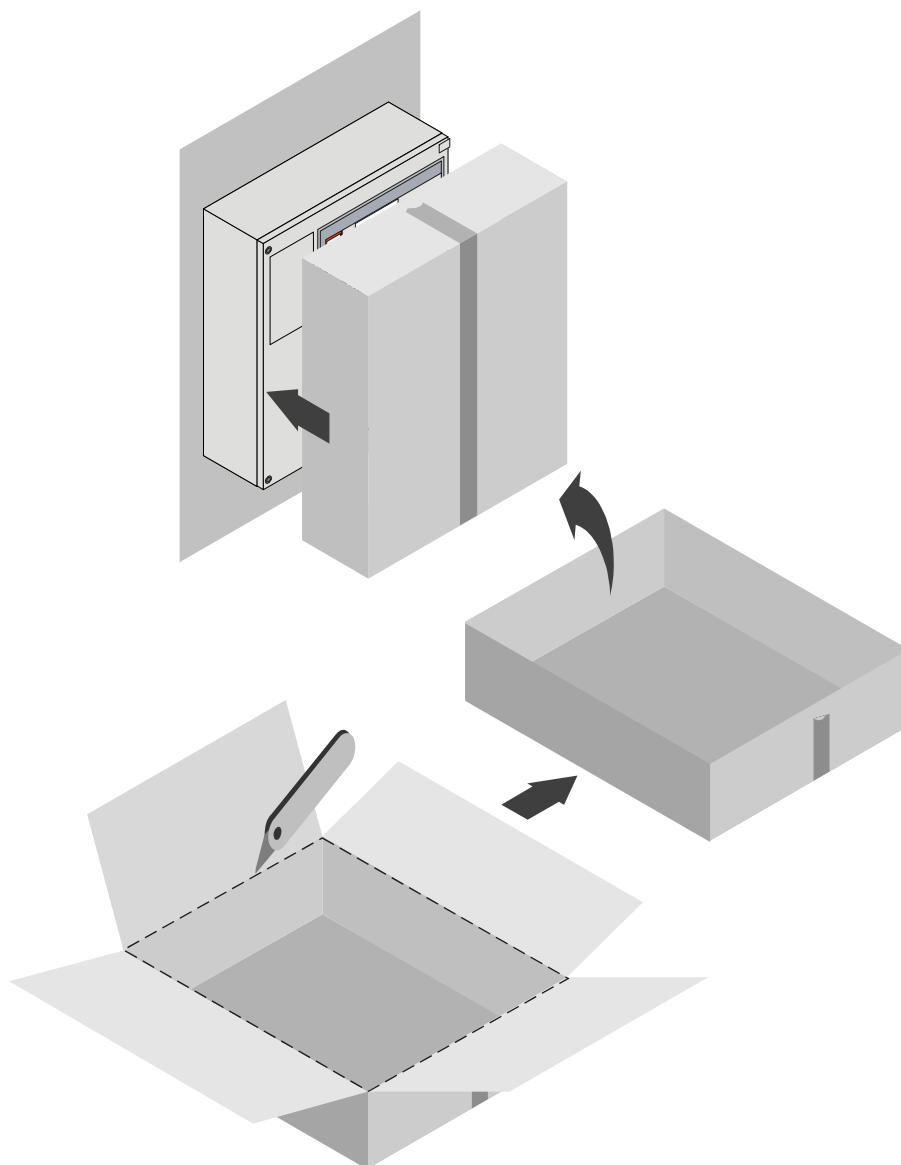


Procedure:

1. Open housing (4) with hexagon wrench No. 3 (included in the housing set).
2. Remove converter B2F020 (6) (put it back afterwards)
3. Determine place of installation.
4. Mark and drill mounting holes (2).
5. Break out the necessary cable entries (3).
6. Screw housing to the wall (5) (screws, dowels, washers and spring washers to be provided by the installer)

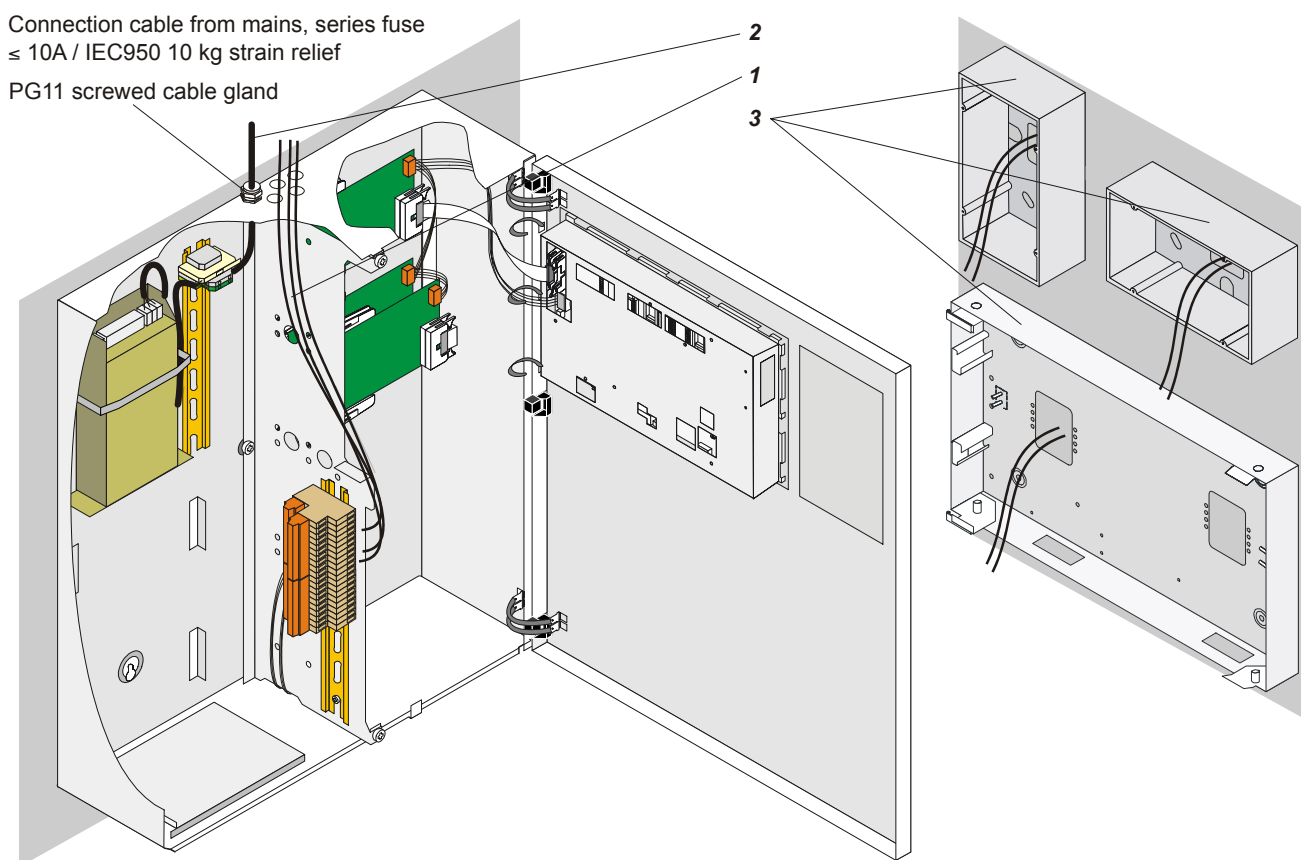
3.3 Protection of the installed housing

During the building phase the carton it was delivered in can protect the installed housing.



4 Commissioning

4.1 Commissioning the system



Requirements: The following work must be completed

1. Control unit installed and detection lines ready for connection (1).
2. All devices such as detectors, manual call points etc. connected and inserted
3. Peripheral devices such as control terminal (3), floor repeater panel, parallel indicator panel, etc. installed and ready for connection.
4. SynoLOOP addressable detection lines have been tested with line tester DZ1131.
5. Required hardware inserted (modules, module chassis, accessories, terminal, possibly EPROM-set (E3H020), batteries).

Required tools

- System documentation
- Multimeter
- Soldering iron (for re-soldering jumpers and resistors if required)
- No. 1 long-shafted Philips head screwdriver for installing the module chassis
- 2 mm Allen key for installing the manual call points
- ESD protection mat

4.2 Preparation

- Control unit FC700A
 - Connect mains cable and supply line (2)
 - Install possible additional modules chassis and attach connection cable in accordance with the system documentation
 - Set I-Bus address on all modules / set switches and jumpers
 - If existing, insert EPROM on C-Bus gateway FG700A (E3H020)
 - Insert all modules
 - Attach I-Bus flat cable and supply cable 5V/24V on all I-Bus modules, see chapter 5
 - Connect fire control installations
 - Connect batteries
- Control terminal FT700A
 - Insert inscription strips
 - Connect C-Bus and supply line in accordance with the system documentation
 - Install terminal
- Floor repeater panels
 - Set LON-Bus address / set switch
 - Remove resistor if necessary
- Parallel indicator panel
 - Set device address / if necessary remove resistor array

First switching-on

- Apply mains voltage, observe the safety regulations in Chapter 2
- Start-up process -> see chapter 16

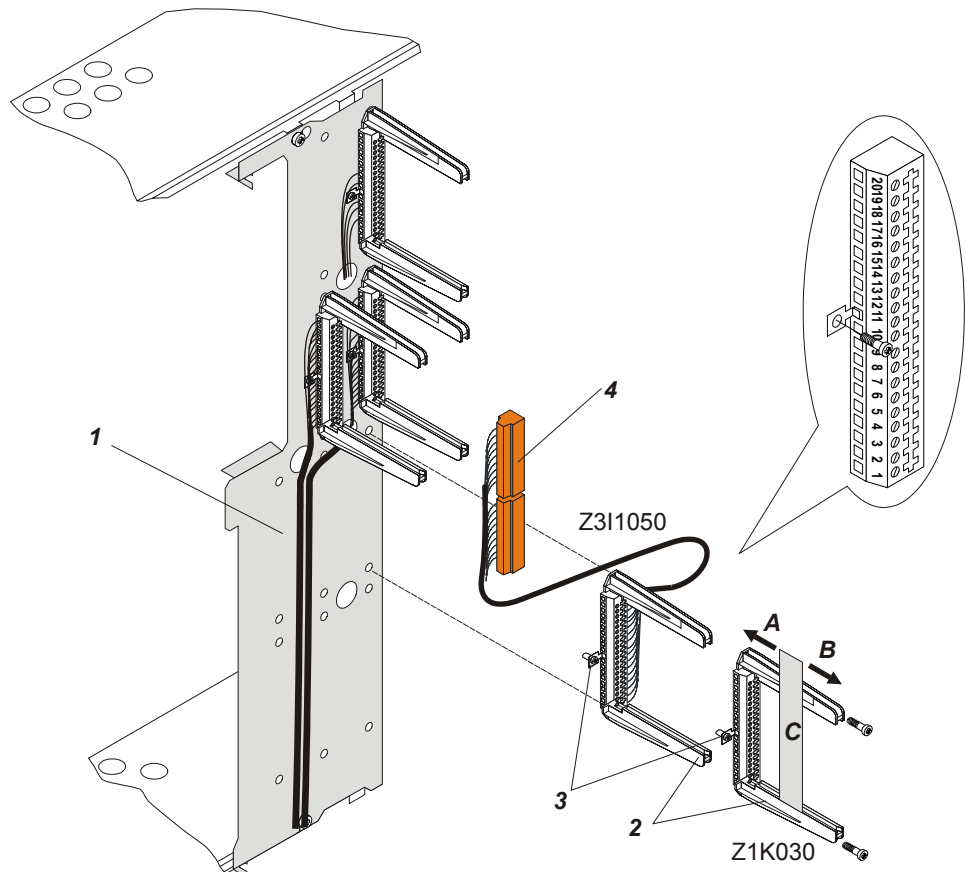
4.3 Programming the system

Programming the system -> see SWE700A Online Help.

5 Installation of hardware

5.1 Installation of auxiliary p.c.b. chassis

Pos.	Module	Preparation	Default
1	Module chassis	Screw module chassis provisory on the housing front panel (mount again later) see chapter 15	Mounted in housing
2	Connection cable with terminal block Z3I1050 or terminal block with p.c.b. chassis Z1K030	Mount on module chassis	—
3	Screw ground connection to pin 11	Mount on module chassis	—
4	Attach connection cable with plug-in terminals	To terminal block Z3I1060 (according to system documentation)	—



Legend:

A = EMI contaminated area

B = EMI protected area

C = EMI protection

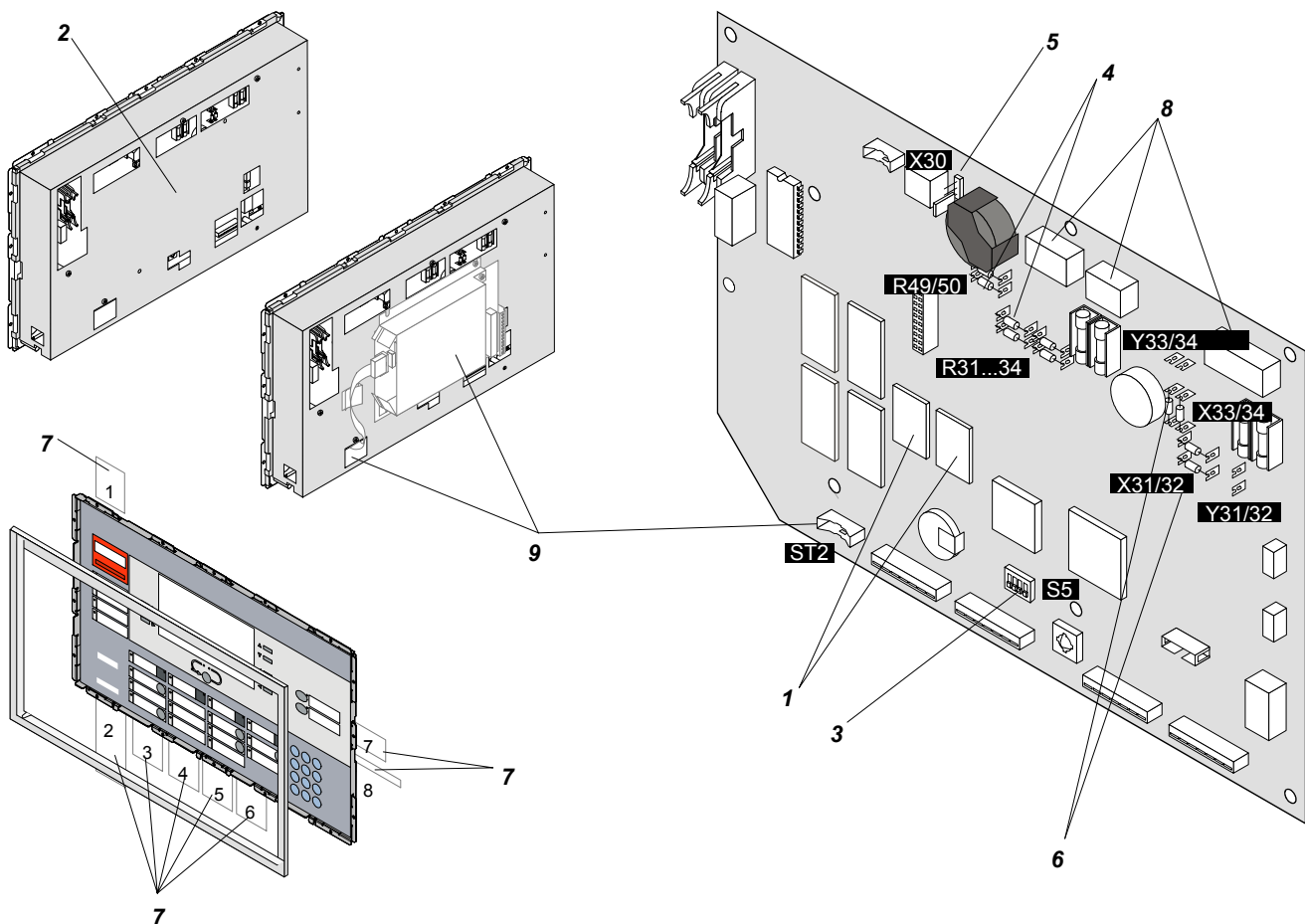
6 B3Q700 Control terminal for use as 'FC' or 'FT'



Pos. 1 and 6 in the following description is only relevant if B3Q700 is used as replacement for FC700A.

By ordering FC700A or B3Q700 (for FT700A) the Pos. 1 and 6 is already done by default.

Pos.	Module	Preparation	Default
1	Flash ROM	When used as 'FC' load program file: B3Q700 -> CIY00760	Program file as 'FT' B3Q700 -> CTY00760
2	Protective cover	Remove (mount again later)	Mounted
3	Programming switch 'S5-2': Event memory overflow blocking	Set 'S5-2' to 'ON' to switch on the overflow blocking of the event memory	All switches 'S5' to 'OFF'
4	Resistors 'R49/50'/'R31'...'R34': Adjust C-Bus impedance	Adjust if necessary	Inserted for 110Ω impedance (G51)
5	Jumper 'X30': 'C-Bus potential'	Ground fault monitoring -> see chapter 14 Set as described in document 007831, chapter 'Ground fault monitoring'	Removed (the other monitors)
6	0Ω resistors 'X31'...'X34'	Re-solder if control terminal is used as 'FC', see description in document 007831	On 'X31'...'X34' (use as 'FT' + supply from control unit)
7	Inscription set FCA7xx	Insert	To be ordered separately, or to be created with Word template DOT (document 007874)
8	Plug-in terminals 'K5'/'K6'/'K7'	Connect line to control unit as described in the system documentation	Plug-in terminals delivered
9	(Option) RS232 interface card E3I020 with mounting accessories Z1B020	Install and connect on 'ST2'	If not enclosed, order separately

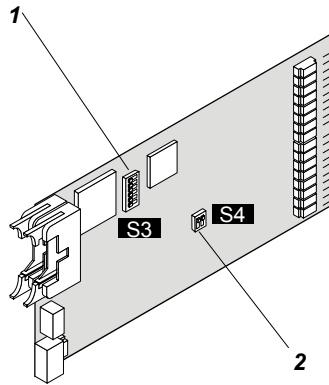


→ Mount control terminal after completing the preparation work -> see document 007827 and connect all cables according to the system documentation.

7 Line modules

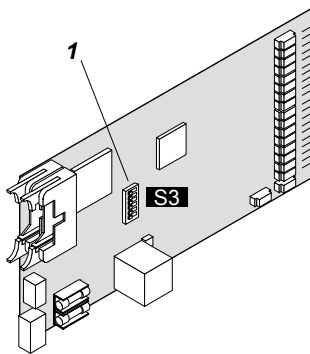
7.1 E3M080 Line module "Collective"

Pos.	Module	Preparation	Default
1	Programming switch 'S3': I-Bus address	Set according to the system documentation (1... 14)	Address 0
2	Programming switch "S4-2": Evaluation of line short circuit	Change to 'ON' if short circuit is to be interpreted as ALARM	To 'OFF' short circuit = fault



7.2 E3M111 Line module "SynoLOOP"

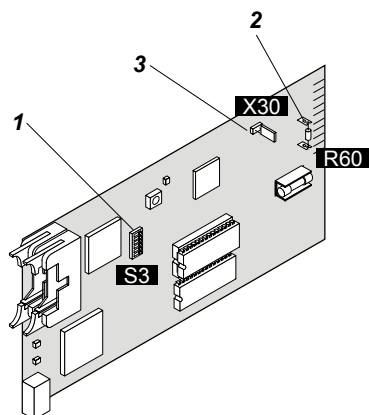
Pos.	Module	Preparation	Default
1	Programming switch 'S3': I-Bus address	Set according to the system documentation (1... 14)	Address 0



8 LON module

8.1 E3I040 I-Bus/LON module

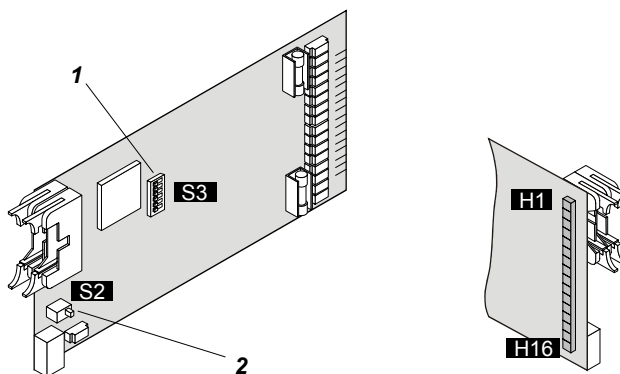
Pos.	Module	Preparation	Default
1	Programming switch 'S3': I-Bus address	Set according to the system documentation (1... 14)	Address 0
2	Resistor 'R60': line termination element 'LON-Bus'	If the LON-Bus is wired as "free topology", 'R60' must be changed to 50Ω , see description in document 007831	100Ω
3	Jumper 'X30': Ground fault monitoring unit 'LON-Bus'	Ground fault monitoring -> see chapter 14 Set as described in document 007831, chapter 'Ground fault monitoring'	Removed (inactive)



9 Control modules

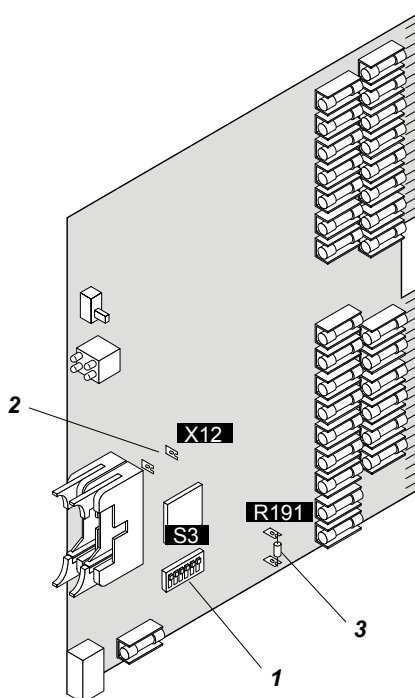
9.1 E3L020 Control module 'I/O'

Pos.	Module	Preparation	Default
1	Programming switch 'S3': I-Bus address	Set according to the system documentation (1... 14)	Address 0
2	Maintenance switch 'S2': Activate test LEDs 'H1'....'H16'	Set to 'ON' for commissioning	To 'OFF'



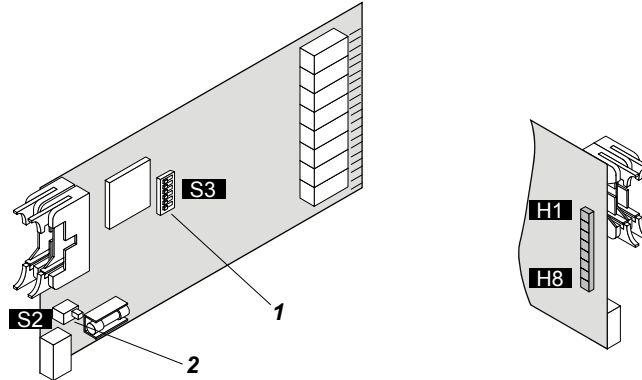
9.2 E3L030 Control module 'VdS'

Pos.	Module	Preparation	Default
1	Programming switch 'S3': I-Bus address	Set according to the system documentation (1... 14)	Address 0
2	0Ω resistor 'X12': Configure LED4	Insert if LED4 (reserve/FBF) shall light up in 'Emergency operation'	Not inserted
3	Resistor 'R191': for SST	Remove (or change) if a third-party extinguishing system requiring a different value shall be connected	Inserted 3K32



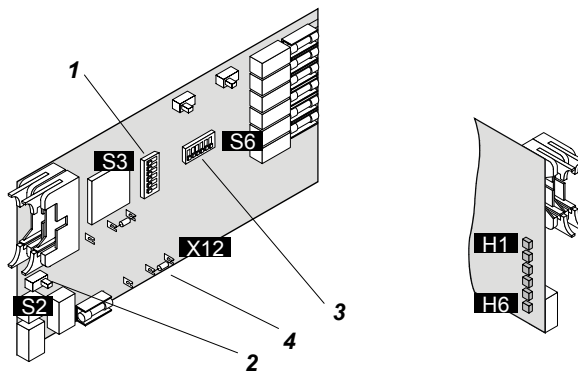
9.3 E3G050 Control module 'Contacts'

Pos.	Module	Preparation	Default
1	Programming switch 'S3': I-Bus address	Set according to the system documentation (1... 14)	Address 0
2	Maintenance switch 'S2': Activate test LEDs 'H1'....'H8'	Set to 'ON' for commissioning	To 'OFF'



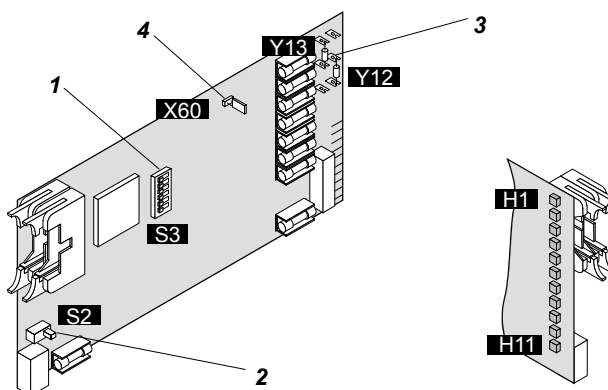
9.4 E3G060 Control module 'monitored'

Pos.	Module	Preparation	Default
1	Programming switch 'S3': I-Bus address	Set according to the system documentation (1... 14)	Address 0
2	Maintenance switch 'S2': Activate test LEDs 'H1'....'H6'	Set to 'ON' for commissioning	To 'OFF'
3	Programming switch 'S6': Activation 'Emergency alarm'	Set according to the system documentation, see description in document 007831	To 'OFF' (control lines activated when 'Emergency alarm')
4	0Ω resistor 'X12': Supply of the horn outputs	Re-solder if necessary, i.e. in case of external horn supply; see description in document 007831	Inserted in 'X12'



9.5 E3G070 Control module 'Universal'

Pos.	Module	Preparation	Default
1	Programming switch 'S3': I-Bus address	Set address to 15	Address 0
2	Maintenance switch 'S2': Activate test LEDs 'H1'... 'H11'	Set to 'ON' for commissioning	To 'OFF'
3	0Ω resistors 'X12/13', 'Y12/13': Program remote transmission alarm/fault	Re-solder if necessary, according to the system documentation, see description in document 007831	
4	Jumper 'X60': Ground fault monitoring 'Control unit'	Ground fault monitoring -> see chapter 14 Set as described in document 007831, chapter 'Ground fault monitoring'	Removed (inactive)



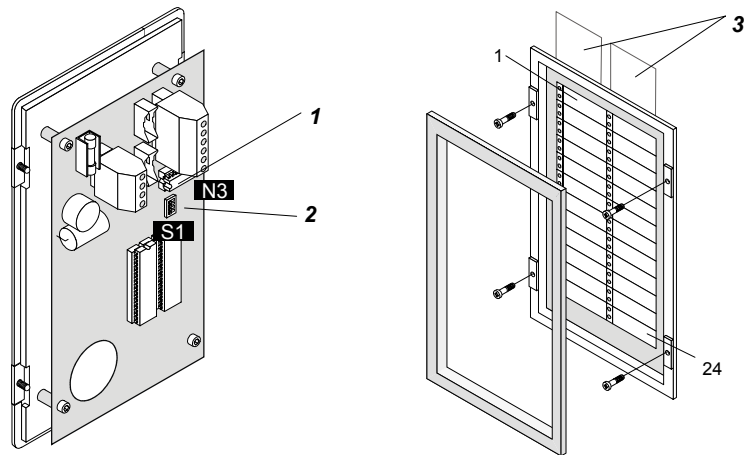
10 Control terminal and floor repeater panels

10.1 FT700A (B3Q700) Control terminal

Control terminal see chapter 6

10.2 B3R051 Parallel indicator panel

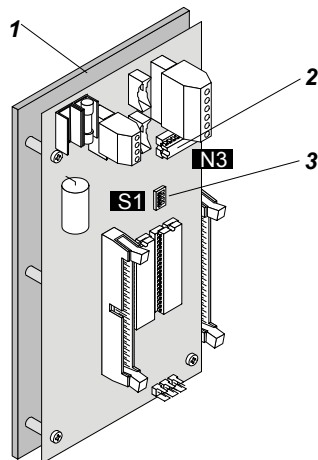
Pos.	Module	Preparation	Default
1	Resistor array 'N3'	Remove all but 1 device, see description in document 007831	Equipped
2	Programming switch 'S1': Equipment address	Set according to the system documentation, the device address is determined by the wiring order	Address 0 (Test procedure)
3	Inscription strips	Inscribe user data and insert inscription strips	No inscription Created with Word template DOT (document 007874)



→ Connect data bus and supply cable, installation -> see document 007827

10.3 K3R072 Synoptic p.c.b.

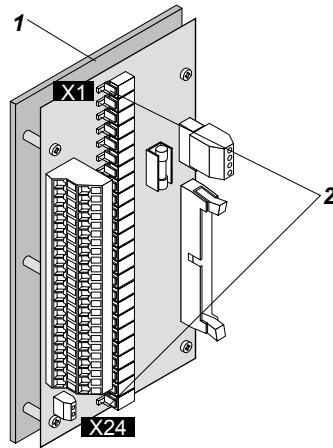
Pos.	Module	Preparation	Default
1	Mounting plate	Remove according to the system documentation, see description in document 007831	Mounted
2	Resistor array 'N3'	Remove all but 1 device, see description in document 007831	Equipped
3	Programming switch 'S1': Equipment address	Set according to the system documentation	Address 0 (Test procedure)



→ Re-install card on mounting plate, connect data bus and supply cable as well as the peripheral equipment.

10.4 K3G060 Relay p.c.b.

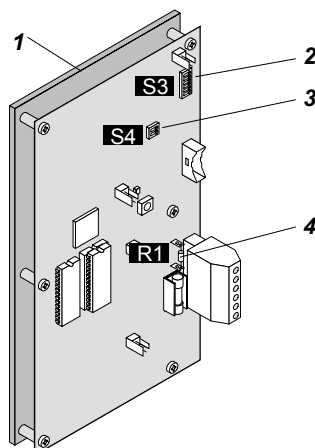
Pos.	Module	Preparation	Default
1	Mounting plate	Remove according to the system documentation, see description in document 007831	Mounted
2	Programming connectors 'X1'.... 'X24': Programming of external potential + or – to relay contact	Set according to the system documentation, see description in document 007831	'Open' (relay contact is potential-free)



→ Re-install card on mounting plate, connect data bus and peripheral equipment.

10.5 K3I050 LON/Synoptic p.c.b.

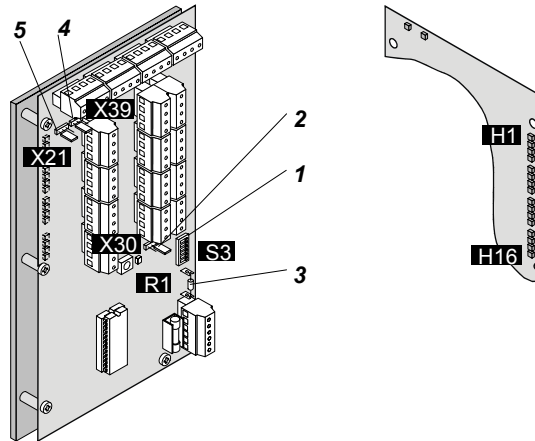
Pos.	Module	Preparation	Default
1	Mounting plate	Remove according to the system documentation, see description in document 007831	Mounted
2	Programming switch 'S3': LON-Bus address	Set according to the system documentation	Address 0
3	Programming switch 'S4-1': Define LED settings of the data bus devices	Set to 'ON' when the LED of the data bus devices shall flash (only for devices with address 5... 8)	To 'OFF'
4	Resistor 'R1': line termination element 'LON-Bus'	Stub line: if K3I050 is not the last device, remove resistor 'R1', see description in document 007831	Inserted 100Ω



→ Re-install card on mounting plate, connect data bus and LON-Bus cable; supply cable as well as the peripheral equipment.

10.6 K3I110 LON I/O p.c.b.

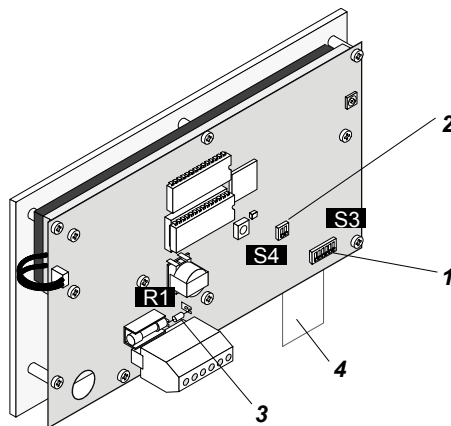
Pos.	Module	Preparation	Default
1	Programming switch 'S3': LON-Bus address	Set according to the system documentation	Set Address 0
2	Jumper 'X30': Ground fault monitoring 'Inputs'	Set according to the system documentation, see description in document 007831	To 'right' (not monitored)
3	Resistor 'R1': line termination element 'LON-Bus'	Stub line: if K3I110 is not the last device, remove resistor 'R1', see description in document 007831	Inserted 100Ω
4	Jumper 'X39': Relay test	Set to 'left' for test -> enable all relays, see description in document 007831	Set to 'right' (all relays blocked)
5	Jumper 'X21': Activate test LEDs 'H1'....'H16'	Set to 'left' for commissioning, see description in document 007831	Set to 'right' (service LEDs deactivated)



→ Install and connect data bus and LON-Bus cable, supply cable as well as peripheral equipment

10.7 B3Q580 Floor repeater panel

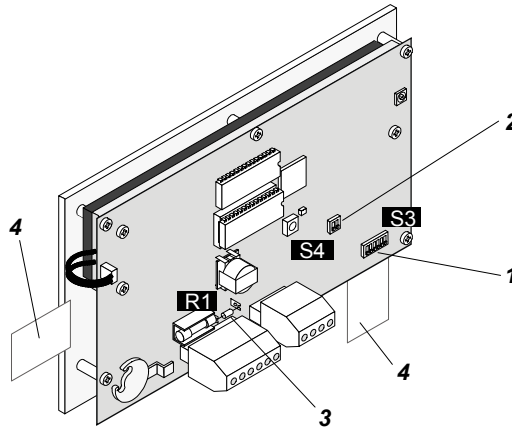
Pos.	Module	Preparation	Default
1	Programming switch 'S3': LON-Bus address	According to the system documentation	Set Address 0
2	Programming switch 'S4-1': Buzzer off	Set 'S4-1' to 'ON' for commissioning	Set to 'OFF'
3	Resistor 'R1': line termination element 'LON-Bus'	Stub line: if B3Q580 is not the last device, remove resistor 'R1', see description in document 007831	Inserted 100Ω
4	Inscription strips	Inscribe and insert	No inscription Created with Word template DOT (document 007874)



→ Afterwards connect LON-Bus cable and supply cable, installation -> see document 007831.

10.8 B3Q590/595 Floor repeater panel with control functions

Pos.	Module	Preparation	Default
1	Programming switch 'S3': LON-Bus address	According to the system documentation	Set Address 0
2	Programming switch 'S4-1': Buzzer off	Set 'S4-1' to 'ON' for commissioning	Set to 'OFF'
3	Resistor 'R1': line termination element 'LON-Bus'	Stub line: if B3Q59x is not the last device, remove resistor 'R1', see description in document 007831	Inserted 100Ω
4	Inscription strips	Inscribe and insert	No inscription Created with Word template DOT (document 007874)



→ Afterwards connect LON-Bus cable and supply cable, connect LED control if necessary, installation -> see document 007831.

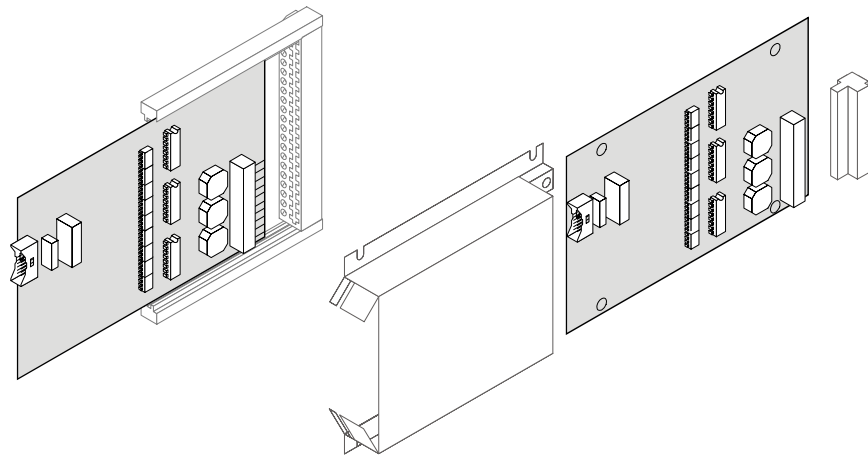
11 Printer

11.1 E3I020 RS232 module



NOTE

Never connect or disconnect the flat cable when power supply is connected.
This may cause the system to restart.



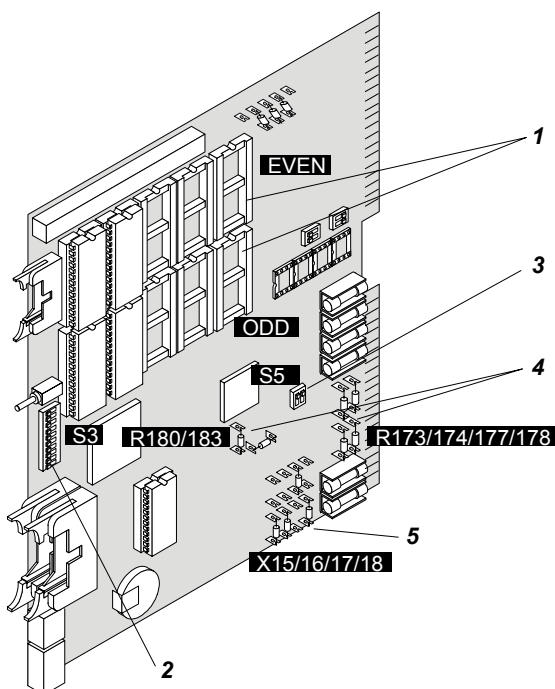
12 Gateway FG700A

12.1 E3H020 C-Bus Gateway


NOTE

Take precautions against voltage surges when inserting RAM modules and EPROM's.
Make sure the modules are pushed fully in their slots.

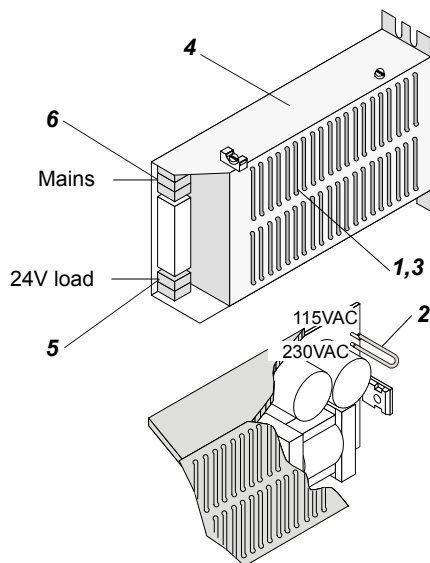
Pos.	Module	Preparation	Default
1	Select EPROM set CKQ007.60 (2x 512Kx8Bit)	Insert (consider positions for 'ODD' and 'EVEN')	Not inserted
2	Programming switch 'S3': C-Bus address	Set according to the system documentation	Address 0
3	Programming switch 'S5': Select port path	Set according to the system documentation, see description in document 007831	Set to 'OFF'
4	Resistors 'R180/183' 'R173/174/177/178': C-Bus impedance	Adjust if necessary	Inserted for 110Ω impedance (G51)
5	0Ω resistors 'X15'... 'X18': Programming of the terminal block 'X1-17... 20'	Re-solder if gateway with autonomous supply is inserted, see description in document 007831	To 'X15'... 'X18' ('FG' + supply from control unit)



13 Power supply

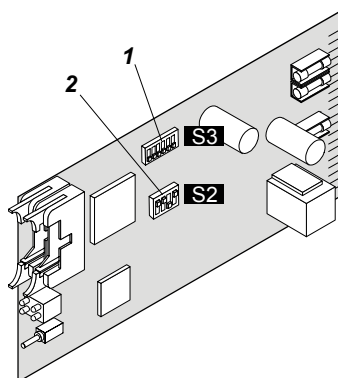
13.1 B2F020 Converter

Pos.	Module	Preparation	Default
1	Metal shield	Dismantle	Mounted
2	Jumper	Important: Check voltage set, if necessary, change when mains voltage 115VAC	Mains voltage 230VAC
3	Metal shield	Mount again	–
4	Converter (power unit)	Mount in the housing	–
5	24 supply line (enclosed in the cable set Z3I470)	Connect to the converter, connect to terminal block 24V load	–
6	Mains cable Connection cable from mains, series fuse $\leq 10A$ / IEC950 10 kg strain relief	Connect to the converter, fix at cable clamp and connect on mains input terminals	–



13.2 E3C011 Battery charging module

Pos.	Module	Preparation	Default
1	Programming switch 'S3': I-Bus address	Set address to 16 if used in FC700A Set address to 0 by using as auxiliary power supply (in separate housing)	Address 0
2	Programming switch 'S2': Select battery type	Set to the battery type used, see description in document 007831	Type 'ALARMCOM' (FIAMM)



14 Ground fault monitoring

14.1 Modules with ground fault monitoring

For more detailed information on the modules with ground fault monitoring, their application, function and programming -> see document 007831, chapter 'Ground fault monitoring'.

14.1.1 Settings of the modules in the factory

The ground fault monitoring is inactive on all modules, i.e. the 'C-Bus potential' is **not** set to 'System ground' -> 'C-Bus' is **not** monitored for ground fault.

**NOTE**

The 'C-Bus potential' may be applied to 'System ground' on **one station** only. Within an electrically connected C-Bus network, the ground fault monitoring 'Control unit' may be active **on one module** only. (Settings always on the station with C-Bus address 1)

14.2 Test ground fault monitoring

Control terminal B3Q700 ('FC'/'FT') or control module E3G070

Connect supply positive or negative to ground for approx. 10 seconds, in order that the corresponding fault message is indicated.

15 Install modules



NOTE

Do never connect the I-Bus from **other stations** together!

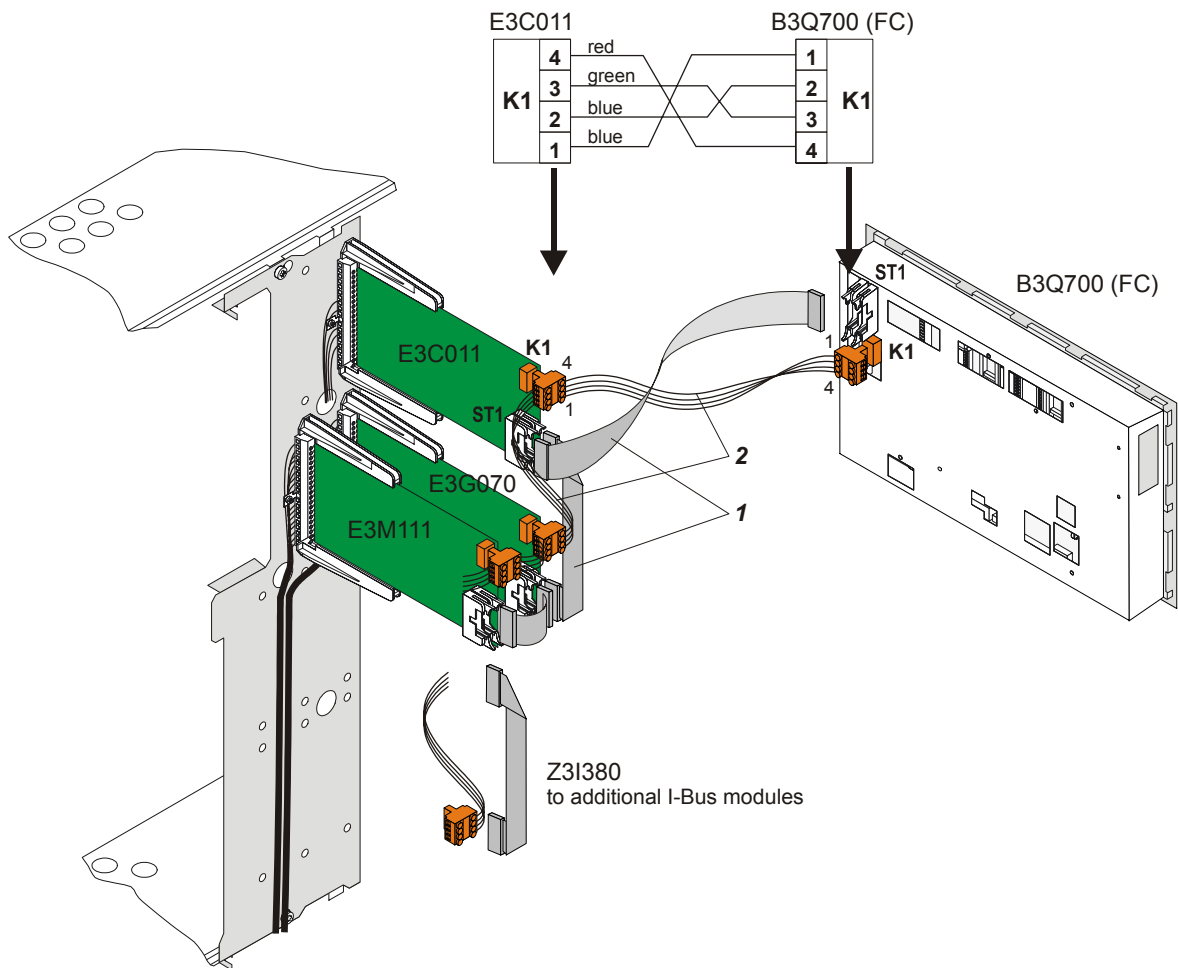
Procedure:

1. Install modules in accordance with the system documentation and fix them
2. Attach I-Bus flat cable (1) (ensure good contact)
3. Attach supply cable (2). Be aware that the I-Bus supply is wired correct



NOTE

Never connect or disconnect the flat cable and the supply cable **when power supply is switched on!**



4. Attach battery cable
5. Attach temperature sensor to battery
6. Electrically isolate controls (e.g. remove relays from base)
7. Remove module chassis from the housing front panel and install it in the housing



NOTE

When switching off for brief periods, remove the mains fuse (if available) or remove minus potential from power unit and minus potential battery.

16 Connection periphery



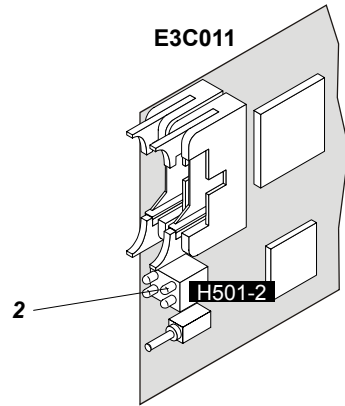
For the connection of periphery devices see the connection diagram inside the door or in the document 007831 'Hardware description'.

17 First switch-on

1. Check whether the batteries are connected.
2. Apply mains voltage, observe the safety regulations in Chapter 2
 - The stations 'FC'/'FT' load a basic configuration stored in EPROM into the RAM. After approx. 2 minutes, this start-up procedure is concluded.

17.1 Battery charging module E3C011

- Green LED 'H501-2' (2) 'Mains operation' lights up.



17.2 Control terminal B3Q700 ('FC'/'FT')

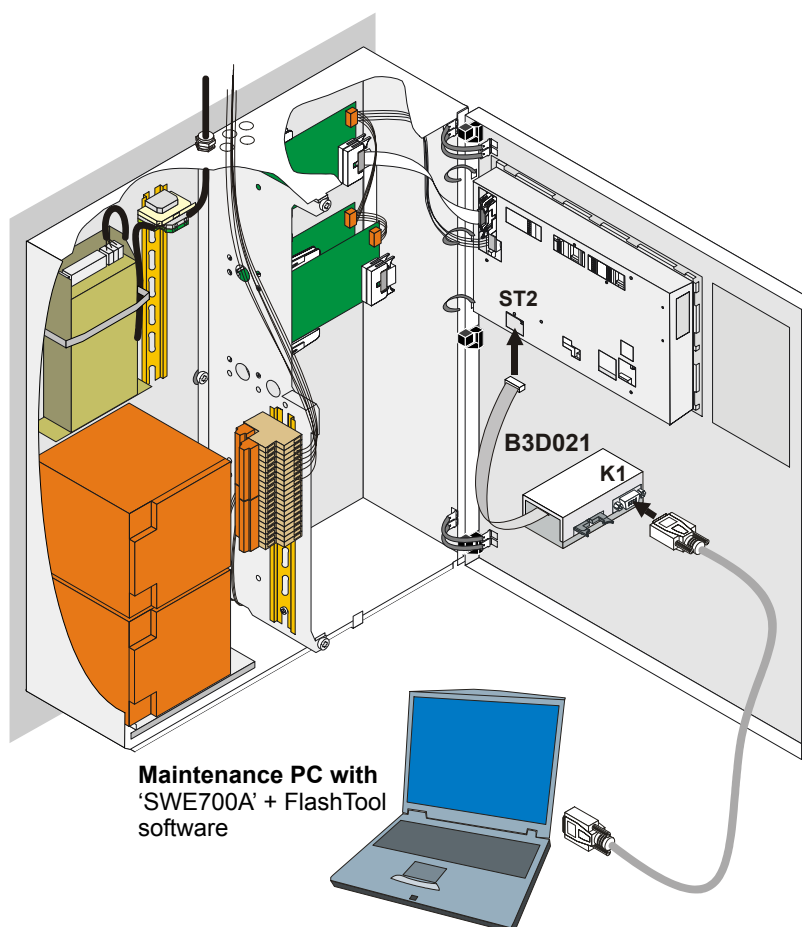
- The LCD display indicates the following 'NOTE' (information):

Information	Total: 1
***** load data *****	

- 'FT' and 'FC' only communicate with each other after the system configuration has been loaded into the stations.
- The control unit is ready for the localization of SynoLOOP devices, or for the data transfer from the maintenance PC.

18 Read in

18.1 Read in of the hardware modules




Procedure:

1. Start-up the tool SWE700A
2. Connect the cables
3. Select the menu **"Communication"** -> **"Connect station"**
4. Select the menu **"Communication"** -> **"Upload data (-> PC)"**
5. Check whether all modules are shown with the correct I-Bus setting
6. If wrong, change the data where necessary to get the right situation
7. If ok, download the data; select the menu **"Communication"** -> **"Download data (-> FC700A)"**

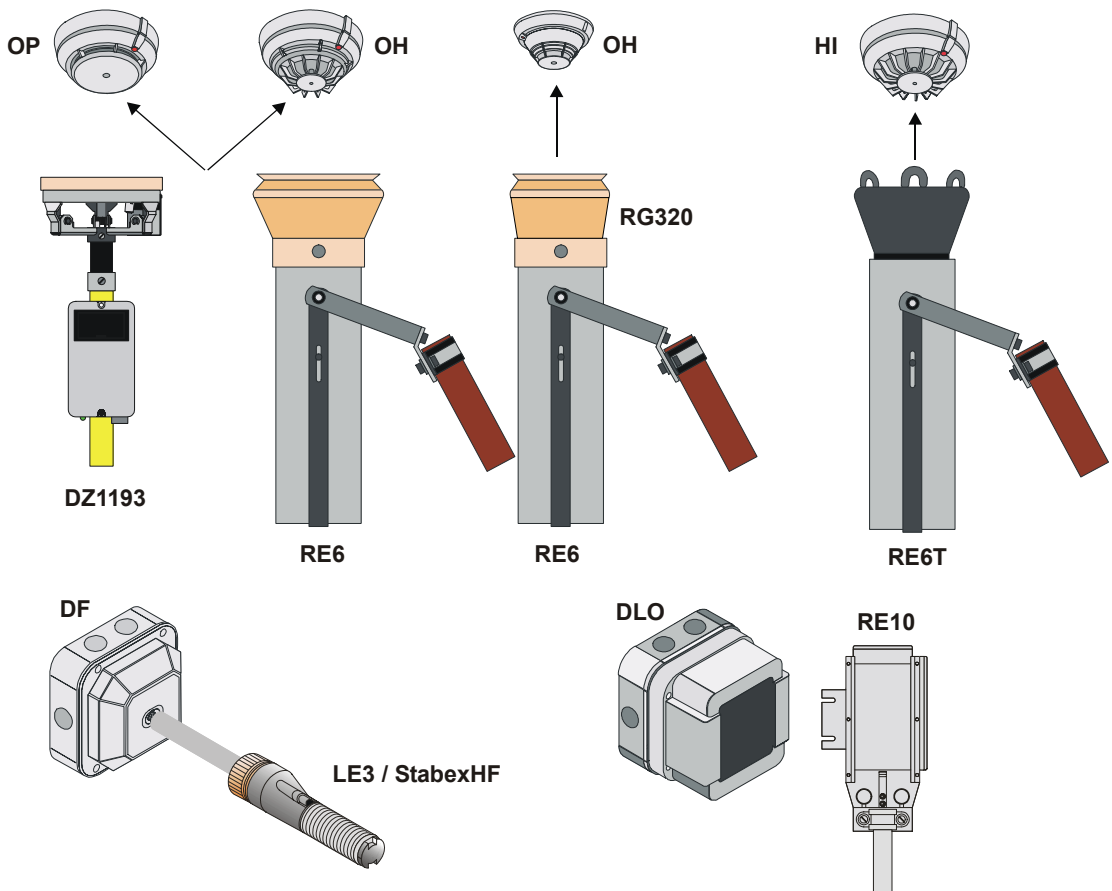
18.2 Read in of devices on a loop

Procedure:

1. Select the menu **"Communication"** -> **"Connect station"**
2. Select with the cursor the line from the hardware module E3M111 (physical structure); select the menu **"Station Command"** -> **"Device Read-in"** (wait until the symbol  disappears on the bottom right)
3. Select the menu **"Communication"** -> **"Upload data (-> PC)"**

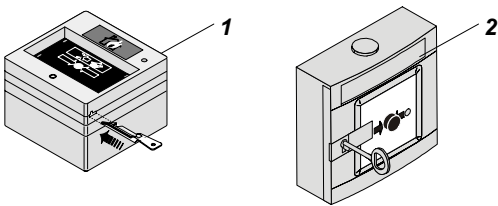
19 Device activation for testing/upgrading a system

19.1 Automatic detectors



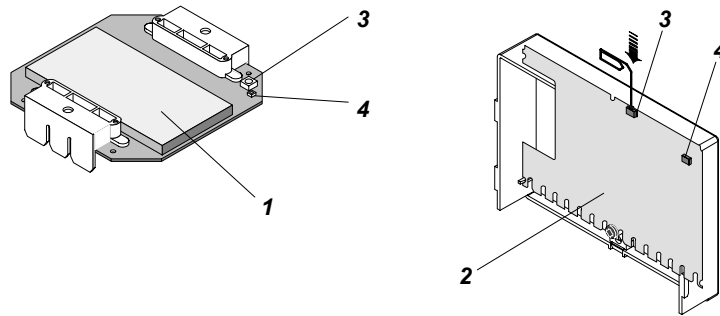
- DZ1193 -> See document 1462
- RE6/RE6T/RE10 -> See document 1164
- LE3 -> See document 257
- DF11.. -> See document 1673
- DLO... -> See document 1276

19.2 Manual call points



Pos.	Manual call point	Procedure:
1	DM1101, MT320C, MT320A	<ul style="list-style-type: none">- Insert test key- Wait until the response indicator flashes- Remove test key
2	DM1103, DM1133	<ul style="list-style-type: none">- Open front with key- Push button- Wait until the response indicator flashes- Close front again

19.3 Input/output modules



Pos.	Input module / Output module	Procedure:
1	DC1192 / ABI320A	Addressing by alarming, press key (3), the addressing is indicated by LED (4) flashing
2	EB.../AB.../ABI...	

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