



Fire protection system Sinteso – panels, network and accessories Planning Tool

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they manage these challenges. Siemens has the answers. growing. For our customers, success is defined by how well of users. Also, our need for safety and security is constantly In addition, we need to increase comfort for the well-being has top priority – and not only where energy is concerned. varming and resource shortages. Maximum etticiency ".91utourtserfni

in new ways: demographic change, urbanization, global energy-efficient, safe and secure buildings and Our world is undergoing changes that force us to think "We are the trusted technology partner for

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Your system for fire detection, alarming and control: Sinteso



Topology 1

Up to 16 panels can be networked in a cluster (FCnet/SAFEDLINK) – if connected to a management platform. Without a management platform, even up to 32 panels can be networked.



Ethernet*



Characteristics of topology example – Easy networking of panels - Operation of panels as stand-alone solution or networked with a total length of up to

1,280 km - Existing cable infrastructure can be used

• without repeater: with repeater (FN2002-A1): Max. distance between panels with

fiber-optic cable: • multi mode (FN2007-A1): single mode (FN2006-A1):

– Max. number of panels with system-wide view:

Application: complex building and large campus

Network in a complex building, for example a hospital.



Extensive network spanning large distances, for example a production plant.



Description

In complex buildings, the fire safety system can be adapted to local circumstances. The control panels as well as fire terminals are networked together via clusters (FCnet/SAFEDLINK). These clusters are interconnected via industrial LAN technology per backbone (FCnet/LAN) to create an EN 54-compliant overall system.

Benefits

- Only one remote transmission to fire brigade necessary for entire system – One interface to common pager system
- Overview of entire system from any configured terminal – Fiber-optic backbone with high immunity to
- electromagnetic disturbance - System-wide EN 54-compliant operation Timely hand-over thanks to parallel commissioning of individual panels or clusters - Distributed intelligence: complete control in the event of a fire is mapped in a cluster; this enables ideal adaptation to structural as well as process requirements

Description

A campus comprises numerous, independent buildings. These have their own organization and structure that can be mapped ideally with a cluster of up to 16 panels. The backbone connects these clusters to an EN 54-compliant network.

Benefits

- Intelligently arranged network structure with clearly defined clusters
- Only one control panel necessary to access entire system with all subnetworks - Backbone is EMC-protected and EN 54-compliant - Simultaneous work at multiple stations allows for efficient commissioning - Can be connected to a pager system for the
- entire system, possible from a central point – Distributed intelligence: complete control in the event of a fire is mapped in a cluster; this enables ideal adaptation to structural and process conditions
- Security personnel have entire campus in view – The right information at the right place: predefined views can be displayed according to customer requirements over the entire system; all controls can be configured to fulfill site-specific requirements

Topology 2

Up to 64 panels in one EN 54-compliant system with widely varying combinations of clusters and backbone – and with connection to a management platform via a customer network.



system-wide transmission system including firefighting periphery can be implemented at a central contact point - Distributed building complexes can be

– Even with these network structures, a

- Panels in different clusters can communicate

ideally protected - Backbone realized with fiber-optic cable

wide redundancy

with each other

- Max. number of networkable panels per cluster:
- Number of panels with system-wide view: 5

Sinteso control panel FC2080 – uniquely safe and flexible



- 1 Pedestal cabinet → 1x* Housing (19" pedestal cabinet) FH2080-AA - Housing incl. base, door and plan compartment A3 – Dimensions incl. base:
- 601x2204x615 mm (WxHxD)
- Order no.: \$54400-C103-A1
- 2 Processor unit \rightarrow 1x*
- Processor unit (19", FC2080) FCC2002-A1 → 1 – Card cage (CPU) with
- CPU card (FC2080) incl. network module (SAFEDLINK, CC) FN2010-A1 • Communication card (FC2080) incl. netwo
- module (SAFEDLINK, CC) FN2010-A1 • 1 free slot for an optional second
- CPU card (FC2080)
- 2 free slots for module bus cards
- Card cage (5 slots) with slots for max. 5 module bus cards
- Cable kit for connecting an optional operating unit Order no.: A5000010502 Order no.: S54400-B17-A1

CPU card (FC2080) FCC2004-A1 \rightarrow 0 to 1x Second CPU card for redundant operation Order no.: S54400-A18-A1

Power supply

- 3 Power supply \rightarrow 1 to 4x** Carrier (19", power supply) FHA2022-A1 → 1 to 4x** - 19" carrier incl. 2x power supply
- (150 W) cascaded Order no.: S54400-B24-A1

Power supply kit (150 W, B) FP2005-A1 \rightarrow 0 to 1x per each FHA2022-A1 - For extending the FHA2022-A1 by 150 W Order no.: A5Q00018779

- Battery pan (19") FHA2021-A11
- → 1x per each FHA2022-A1 – Battery pan incl. 2x tension belts
- For max. 2x batteries 100 Ah (to be ordered separately)
- Order no.: S54400-B23-A1

Mechanical installation

4 19" carriers

Carrier (19", card cage) FHA2023-A1 \rightarrow 0 to 3x - For max. 2x card cages (5 slots) FCA2008-A1 – Necessary height 358 mm Order no.: S54400-B25-A1

Carrier (19", option) FHA2024-A1 → 0 to 8x - For options, max. height 135 mm on two-level hat rail, length 430 mm; max. 1x key safe adapter SDA 300 (IFAM co.)

- Necessary height 182 mm Order no.: \$54400-B26-A1

Information

- For 19" carriers, the available height between the processor unit FCC2002-A1 and battery pan FHA2021-A1 – With 1x battery pan FHA2021-A1: 1202 mm
- With 2x battery pans FHA2021-A1: 935 mm

Extensions

5 Card cage \rightarrow 0 to 6x Card cage (5 slots) FCA2008-A1 - Slots for max, 5 module bus cards Order no.: S54400-B28-A1

6 Module bus cards → 0 to 37x Line card (FDnet) FCL2001-A1 → 0 to 30x – 4x FDnet lines and max. 252 addresses Order no.: A5Q00009875

Line card (collective) FCL2002-A1 \rightarrow 0 to 30x 8x collective lines

Line card (MS9i) FCL2003-A1 \rightarrow 0 to 30x – 2x MS9i lines and max. 100 addresses Order no.: A5Q00010044

Line card (AnalogPLUS) FCL2005-A1 → 0 to 30x - 4x AnalogPLUS lines and max. 126 addresses per line Order no.: S54400-A107-A1

Line card (interactive) FCL2006-A1 \rightarrow 0 to 30x - 1x interactive line and max. 126 addresses Order no.: \$54400-A108-A1

Line card (interactive Ex) FCL2007-A1 → 0 to 30x 1x interactive Ex line and max. 32 addresses

Order no.: S54400-A134-A1 I/O card (FUE) FCI2007-A1 \rightarrow 0 to 7x

- Transmission unit for alarms and faults - Max. 1x per card cage (5 slots) FCA2008-A1 Order no.: \$54400-A20-A1

I/O card (programmable) FCI2008-A1 → 0 to 10x

 12x open collector inputs/outputs Order no.: S54400-A6-A1

I/O card (sounder/monitored) FCI2009-A1 → 0 to 7x

- 8x monitored outputs - Max. 1x per card cage (5 slots) FCA2008-A1 Order no.: S54400-A21-A1

Operation

7 Operating unit \rightarrow 0 to 1x Operating unit FCM2028-A2 \rightarrow 0 to 1x – Standard operating unit - Communication over FCnet Order no.: \$54400-F83-A1

8 Operating add-ons \rightarrow 0 to 2x*** Operating add-on (2xLED display) FCM2038-A2 → 0 to 2x per operating unit – 48x LED groups Order no.: S54400-B146-A1

Operating add-on (4xLED display) FCM2036-A2 \rightarrow 0 to 1x per operating unit – 96x LED groups Order no.: S54400-B147-A1

* Number of units to be installed

** if 3 or 4: split into two housings *** max. 120 LED groups per operating unit

Topology 3

Use of a customer network to transmit relevant information from several locations to a central management platform.



Characteristics of topology example

with a management platform via IT network provided by the customer

- Reduced installation or maintenance costs thanks to usage of customer networks

- Autonomous clusters with their own communication system to fire brigade (to fulfill EN 54 regulations)

Key data - Connection of independent building complexes - Max. number of networkable panels

per cluster:

The maximum number of backbones, panels or data points is dependent on the management platform.

16

^{1,000} m 2,000 m 4 km

⁴⁰ km

Sinteso Planning Tool – panels, network and accessories

platform from

Remote access

Fire control pane

FC2040-AA

consisting of:

Operating unit

Operating add-on

Housing

- - 0

Description

- 4 FDnet loops

or Ethernet

Description

- Integrated operating unit

- Redundant DC 24 V supply input

Housing

Optional:

It has the following features:

- Integrated operating unit

Integrated power supply

- Automatic configuration

yellow LED (overall)

– 150 W power supply

Order no.: A5Q00016100

(modular)

FN2012-A1

Siemens

Ethernet*

SintesoView/Sinteso Touch, Sinteso Mobile For remote operation using SintesoView and Sinteso Touch, a Windows-enabled device is either connected to the Internet or customer network via LAN, WLAN, or mobile network operator. The signals are then transmitted to an Ethernet switch that connects to the backbone. This connection is protected against unauthorized access by a firewall. A license key provides access to the fire protection system. The device serves as a virtual terminal, offering the same user interface as the operating station or panel (FT2080, FT2040, FC20xx) in the fire detection tion network.

The user interface of the Sinteso Mobile app for Android smartphones has a tabular design and allows complete system access. Alarms and faults are distinguished by color.

Backbone (FCnet/LAN)

Clusters can be networked via an Ethernet backbone, using industrial LAN technology. Siemens is the first manufacturer who offers this as EN 54approved solution. With standard IT architecture, building structures and organizational processes can be ideally represented.

- Characteristics of networking via backbone - Ethernet switch to connect a cluster (FCnet/ SAFEDLINK) to the backbone (FCnet/LAN)
- Redundant transmission thanks to circular wiring - Redundant connection possible due to two Ethernet switches
- Increased EMC protection thanks to fiber-optic Easily programmable, EN 54-compliant system
- wide control - Configurable view of each panel - Each panel can be used as a router panel (please
- read separate documentation) Key data
- Max. number of panels in EN 54 system: – Max. number of panels in a cluster:
- Max. number of networkable clusters:
- Number of panels placed directly on backbone: 4* Number of panels with system-wide view: 5*
- Max. distance between clusters Fiber optic multi mode (FN2012-A1 with
- Ethernet module (MM) VN2002-A1): 4,000 m Fiber optic single mode (FN2012-A1 with Ethernet module (SM) VN2003-A1): 40,000 m
- * more with appropriate system topology The following guidelines must be considered
- To fulfill the EN 54 norm, only 1 Ethernet switch is required to connect control panels with less than 512 fire detectors to the backbone.

Cluster (FCnet/SAFEDLINK)

Via the powerful FCnet/SAFEDLINK, up to 32 panels can be networked (fire control panels and fire terminals).

- Characteristics of networking via the system bus – Wiring with two-wire lines - Redundant transmission thanks to circular wiring - Increased safety due to degrade mode using a
- second network module - No additional cabling necessary for degrade
- mode; even for systems with more than 512 fire detectors
- Configurable view of individual panels
- Key data – Max. number of panels in a cluster: – Max. number of panels in a cluster if connected to a management platform: Max. distance between panels with copper cable • without repeater: with repeater: - Max. distance between panels with fiber-optic cable • multi mode (FN2007-A1):

single mode (FN2006-A1):

- Max. number of panels with

system-wide view:

- Customer network Remote access $\overline{}$ with SintesoView/ $\overline{}$ Router/ Sinteso Touch Remote access VPN ---with Sinteso Mohile Firewall * simplified drawing (without additional Fire control panel (4-loop) Ethernet switch FC2040-GA* (modular) consisting of: FN2012-A1 Operating unit Optional: event printer FTO2001 - Optional: key switch KABA FTO2005 - - - 0 ... Operating add-on Optional: 48 or 96 display groups each with one green/red and one vellow LED (overall) Housing – Large: 430x796x260 mm (WxHxD) System-wide view – 150 W power supply with the fire terminal – Max. battery capacity: 2x26 Ah FT2040-EZ Order no.: \$54400-C3-A3 Backbone (FCnet/LAN) * (Figure analog to FC2040-AA) Cluster (FCnet/SAFEDLINK) **Fire control panel** FC2020 (2-loop) Description The FC2020 is a compact 2-loop fire control panel. Fire control panel FC2020-AZ It has the following features: – 2 FDnet loops consisting of: Integrated inputs/outputs for peripherals **Operating unit** Integrated operating unit - Optional: event printer FTO2001 - Integrated power supply – Optional: key switch KABA FTO2005 Automatic configuration - Networkability via FCnet/SAFEDLINK Standard: 430x398x160 mm (WxHxD) or Ethernet – 70 W power supply – Max. battery capacity: 2x12 Ah Technical data Order no.: A5Q00015550 FDnet detector lines Number of addresses: max. 252 Number of loops/stubs: 2/4 - Optional with loop extension 4 loops/8 stubs Fire control panel FC2020-EZ Inputs and outputs consisting of: 1 relay output for RT alarm Operating unit 1 relay output for RT fault – 24 display groups each with one green/ 1 monitored alarm output red and one vellow LED 1 monitored fault output – Optional: key switch KABA FTO2005 1 monitored sounder output (1 A) Housing - 8 configurable inputs/outputs 24 V 16 Standard: 430x398x160 mm (WxHxD) - 1 Ethernet connection (RI45) - 70 W power supply Optional: sounder module for splitting the 1,000 m – Max. battery capacity: 2x12 Ah sounder line output into 4 monitored outputs (2 A) 2,000 m Order no.: A5Q00016827 4 km 40 km 5 - - -each FC2020 contro panel contains ault transmission Monitoring of 1 conventional sounder line Fire control panel FC2020-AA Fire control panel FC2020-AE
 - Operating unit - Optional: event printer FTO2001 Operating add-on - Optional: 48 or 96 display groups

consisting of:

- each with one green/red and one yellow LED (overall) Housing Comfort: 430x796x160 mm (WxHxD)
- 150 W power supply – Max. battery capacity: 2x26 Ah Order no.: A5Q00016829
- consisting of: Operating unit
- Optional: event printer FTO2001 – Optional: key switch KABA FTO2005 – Optional: key switch KABA FTO2005
 - **Operating add-on** - 48 display groups each with one green/ red and one yellow LED - Optional: 96 display groups each with one green/red and one vellow LED
 - (overall) Housing
 - Comfort: 430x796x160 mm (WxHxD) - 150 W power supply
 - Max. battery capacity: 2x26 Ah
 - Order no.: A5Q00016851
 - **Operating add-ons**

Operating add-on (2xLED incl.) FCM2038-A2 This contains 48 display groups each with one green/red and one yellow LED. Any events can be allocated to the LEDs: 427x200x25 mm (WxHxD). Optional: event printer FTO2001-A1 Order no.: \$54400-B146-A1

FDnet

The FDnet (Field Device network) is a modern. multipurpose bus system. It allows rapid, fail-safe communication between the Sinteso[™] bus elements and the fire control panel. Characteristics of networking via the detector

- Use of all cable types (with/without shielding) – Integration of radial cable networks without modifications to cable network
- No shielding necessary - Turbo isolators for uninterrupted detection and alarming
- 2-wire loop - Power supply to all bus elements via the FDnet (except input/output module FDCIO221, zone module FDCI223, "transponder" FDCIO223, extinguishing control unit XC10, aspirating smoke
- detectors FDA221/FDA241) Key data
- Up to 40 T-taps – Max. 252 bus elements per loop
- Cable lengths up to 3.3 km with up to 252 bus elements

Legend for the interfaces:

Serial interfaces



One each optional RS232 and/or RS485 interface (can also be freely combined) per control panel or terminal Network to connect clusters Backbone (FCnet/LAN) Cluster (FCnet/SAFEDLINK) Network to connect panels Network to connect Sinteso devices

Management Extension and networking options **Network components** platform Backbone Third-party interface Fiber-optic converter The building management platform Modbus gateway NK8237.2 Ethernet switch (modular) FN2012-A1, Optical fiber networking Desigo CC™ and the danger manage-The NK8237 is used as a gateway modules FN2006-A1 (SM) Order no.: S54400-B152-A1 ment system MM8000 are connected between Sinteso and Modbus and FN2007-A1 (MM) The Ethernet switch connects clusters via Ethernet. They are either directly devices. It provides for bidirectional With these optical fiber networkto the backbone. In case of increased connected to the backbone (via Ethering modules, Sinteso stations can Modbus RTU and TCP connectivity to Line card (FDnet Line card (collective) dundancy requirements, a cluster can net switch) or via the customer network FCL2003-A1 Sinteso fire protection systems. It has be linked to the FCnet/SAFEDLINK FCL2001-A1 FCI 2002-A1 be linked to the backbone using a second by using adequate safety measures (e.g. For 252 FDnet To connect collective firewall, routing and logging capasystem bus over great distances panel and a second switch. This applies, safety module or PC software). Web devices on max. Siemens standard detector bilities built in. The gateway firewal by glass fiber cable. The redundant for example, for clusters with more on 8 stubs (MS7/9, MS24, clients and apps for smartphones and 4 loops or 8 stubs. application protects the Sinteso feed allows EN 54-compliant than 512 detectors/manual call points or clusters DS11/Sigmacon/ Order no.: Order no. tablets provide remote access to the system against unauthorized access networking even if the networkwith remote transmission in systems with more SynoLINE600, FDOOT241-9 A5Q00010044 A5000009875 management platform. and cyber attacks. ing module is remote. and FDOOT241-A9). than 512 detectors. Order no.: A5Q00010502 Order no.: S54461-C7-A1 Characteristics: – 4 Ethernet interfaces - Two independent, galvanically – 2 slots for optional Ethernet modules (ring). separated channels These must be ordered separately: FC2030 ~ SC connections for optical ~ VN2001 Ethernet module (copper/electric) Fire control panel Fire control panel FC2040 max. 100 m FC2040-AE FC2040-AG Two redundant, monitored FC2060 Order no.: S54400-A42-A1 consisting of: consisting of: FC2080 power feeds EN 54-approved • VN2002 Ethernet module (multi mode), - Earth fault monitoring Operating unit Operating unit optical Ethernet, max. 4 km Installation in the station or - Optional: event printer FTO2001 - Optional: event printer FTO2001 - Optional: event printer FTO2001 Order no.: S54400-A43-A1 - Optional: key switch KABA remote Optional: key switch KABA FTO2005 – Optional: key switch KABA FTO2005 • VN2003 Ethernet module (single mode), Can be installed upright or FTO2005 Operating add-on optical Ethernet, max. 40 km horizontally on a DIN rail - 48 display groups each with one Operating add-on - Optional: 48 or 96 display groups Order no.: S54400-A44-A1 - FN2006-A1: Single-mode green/red and one yellow LED – 96 display groups each with one each with one green/red and one Fault output: relay contact, floating transmission up to 40 km Network module (SAFEDLINK) FN2001-A1 green/red and one yellow LED (overall) The FN2012-A1 additionally needs the connection Order no.: S54400-A109-A1 With this module, the station can be networked - Optional: 96 display groups each with Housing module (MoNet) FCA2031-A1 via the cluster. For this purpose it is necessary to operation. – FN2007-A1: Multi-mode one green/red and one yellow LED - Comfort: 430x796x160 mm - Comfort: 430x796x160 mm (WxHxD) install a network module. In case of additional Order no.: Order no.: S54400-A153-A1 transmission up to 4 km (WxHxD) requirements in terms of the degrade mode Housing S54400-A18-A1 For installation in panels or additional housings, function, 2 network modules can be installed. - Comfort: 430x796x160 mm (WxHxD) - 150 W power supply Order no.: S54400-A110-A1 - Max. battery capacity: 2x26 Ah use the following installation kits: For example for: – 150 W power supply – Max. battery capacity: 2x26 Ah - Networked panels with more than - FHA2029-A1 for Eco, Standard, Comfort housing – Max. battery capacity: 2x26 Ah Order no.: A5Q00016854 512 FDnet devices Order no.: S54400-B79-A1 Order no.: A5Q00016852 - Networked panel with connection to remote - FHA2030-A1 for Large, Large Extension housings transmission and with more than 512 FDnet Ethernet switch Order no.: S54400-B81-A1 Order no.: A500001285 FC2020 FC2030 In the basic version each FC2040 FC2040 control panel contains: Repeater (SAFEDLINK) FN2002-A1 FC2060 Alarm transmission The repeater doubles the range between FC2080 Fire controls 2 FCnet stations (from 1,000 m to 2,000 m). Monitoring of 2 convention A separate power supply is needed. sounder lines Order no.: S24236-B2502-A1 **Fire control panel** Fire control panel Fire control panel FC2030 (modular) FC2080 (modular)** FC2060 (modular) Fire control panel FC2040 (4-loop) Description Description Description The FC2030 is a modular fire control panel The FC2060 is a modular fire control panel. The FC2080 is a modular fire control panel Technical data It has the following features: It has the following features: It has the following features: – 2 FDnet loops – 4 FDnet loops - Housing (19" pedestal cabinet The FC2040 is a compact 4-loop fire control panel. FDnet detector lines slots for additional module bus cards? 5 slots for additional module bus cards Processor unit (19", FC2080) with Number of addresses: max. 504 CPU card Integrated inputs/outputs for peripherals Integrated inputs/outputs for peripherals - Number of loops/stubs: 4/8 Communication card - Integrated operating unit - Integrated operating unit - Integrated inputs/outputs for peripherals - Optional with loop extension: 8 loops/16 stubs SAFEDLINK modules Integrated power supply Integrated power supply Inputs and outputs Housings - Automatic configuration Optional: redundant 2nd CPU card Automatic configuration - 1 relay output for RT alarm Networkability via FCnet/SAFEDLINK or Ethernet - Networkability via FCnet/SAFEDLINK (hot pluggable) 1 relay output for RT fault or Ethernet • Slots for max. 7 module bus cards - Networkability via FCnet/SAFEDLINK 1 monitored alarm output - Power supply up to 450 W Technical data 1 monitored fault output Optional operating unit **Technical data** - 2 monitored sounder outputs (1 A each) FDnet detector lines - Networkability via FCnet/SAFEDLINK - 12 configurable inputs/outputs 24 V – Number of addresses: max. 756 FDnet detector lines or Ethernet 1 Ethernet connection (RJ45) - Number of addresses: max. 1,512 - Number of integrated loops/stubs: 2/4 - Optional: sounder module for splitting Optional: extendable up to 12/24 loops/stubs - Number of integrated loops/stubs: 4/8 Technical data the sounder line output into 4 monitored - Optional: extendable up to 28/56 loops/stubs Inputs and outputs FDnet detector lines outputs (2 A) 1 relay output for RT alarm Inputs and outputs - Number of addresses: max, 5,000 - 1 relay output for RT fault 1 relay output for RT alarm - Optional: extendable 1 monitored alarm output 1 relay output for RT fault up to 120/240 loops/stubs - 1 monitored fault output 1 monitored alarm output Fire terminal FT2040/FT2080 Options - 1 monitored sounder output (1 A) 1 monitored fault output - Max. 6 additional card cages (5 slots) 8 configurable inputs/outputs 24 V 2 monitored sounder outputs (1 A each) - Max. 37 slots for additional - 1 Ethernet connection (RJ45) 12 configurable inputs/outputs 24 V Technical data module bus cards 1 Ethernet connection (RJ45) Optional: sounder module for splitting the sounder • Max. 30 FDnet line cards line output into 4 monitored outputs Optional: sounder module for splitting the The FT20xx has the following features: – DC 24 V system power supply • Max. 30 collective line cards sounder line output into 4 monitored outputs – Alarm current: 130 mA • Max. 30 MS9i line cards Separate DC 24 V supply input possible • FT2040: 430 mA • Max. 30 AnalogPLUS line cards • FT2080: 700 mA • Max. 30 interactive line cards - Networkability via FCnet/SAFEDLINK or Ethernet • Max. 30 interactive Ex line cards • Max. 7 I/O cards for alarm and fault transmission Max. 10 programmable I/O cards • Max. 7 I/O cards for monitored sounder lines Note: Picture shows FC2080 with optional fire terminal - - 0 1 (touch) FT2080 and operating add-on FCM2007-A1 built in. ** for further details, please see front page In the basic version Fire terminal (touch) FT2080-A1 Fire terminal FT2040-AZ each FC2060 control panel contains consisting of: consisting of: **FDnet** Fault transmission -**Operating unit** Operating unit Fire controls - Optional: event printer FTO2001 - 12" color display Monitoring of 2 - Resolution 1280x800 pixels ional sounder lines – Optional: key switch KABA FTO2005 B: B@ Order no.: S54400-C120-A1 Fire control panel FC2030-AA Fire control panel FC2060-AA – Eco: 430x398x80 mm (WxHxD) Housing consisting of: consisting of: Floor repeater display Floor repeater terminal – Optional: 70 W power supply - Standard (FH2002-A1)* Operating unit Operating unit FT2011 FT2010 – Max. battery capacity: 2x7 Ah - Desktop (FHA2040-A1)* - Optional: event printer FTO2001 – Optional: 48 or 96 display groups each - Optional: event printer FTO2001 Used for the display of messa- Used for the display and control – Back (FHA2039-A1)* with one green/red and one yellow LED – Optional: key switch set KABA FTO2005 - Optional: key switch set KABA ges from the monitored area. of messages from the monitore - Fire terminal board (FTI2001-A1)* in Eco housing with 48 display groups FTO2005 Order no.: A5Q00017706 area. Operating add-on * must be ordered separately (FH2001-E1) or with 96 display groups – Optional: 48 or 96 display groups, each with Operating add-on Order no.: A5Q00014104 (FH2001-G1) 14 one green/red and one yellow LED (overall) - Optional: 48 or 96 display groups, Shared properties Order no.: A5Q00016702 – Backlit display with plain text display each with one green/red and one Housing (6 lines of 40 characters each) vellow LED (overall) - Comfort: 430x796x160 mm (WxHxD) Power supply and communication Fire terminal FT2040-EZ – 150 W power supply Housing (individually addressed) via FDnet, – Max. battery capacity: 2x26 Ah – Large: 430x796x260 mm (WxHxD) consisting of: additional 24 V supply possible 150 W power supply Order no.: S54400-C2-A1 Operating unit – 282x207x79 mm (WxHxD) - Optional: up to two 150 W additional - 24 display groups each with one green/ – Max. 8 FT2010/FT2011 per FC2020 power supplies (FP2005-A1) red and one yellow LED – Max. 16 FT2010/FT2011 per FC2040 – Max. battery capacity: 2x45 Ah Order no.: A5Q00016720 – Max. 50 FT2010/FT2011 per FC2060 Order no.: A5Q00023048

Operating add-on (4xLED incl.) FCM2036-A2 This contains 96 display groups each with one green/red and one vellow LED. Any events can be allocated to the LEDs; 427x200x25 mm (WxHxD). Order no.: S54400-B147-A1



Key switch Kaba FTO2005-C1 Kaba lock cylinder with installation accessories and keys Kaba 8 #100. Usable optionally for enabling operation. Order no.: A5Q00010113



Kev switch Nordic FTO2006-B1 Key set with mounting accessories. Optionally applicable for operation clearance. Order no.: A5Q00010129



SIEMENS



¹⁾ Only usable in conjunction with sounder lines, ²⁾ Only usable on periphery board, ³⁾ Only usable on operating unit FCM2028-A2 or FCM2029-A2

License key	Without license key	S1 (FCA2033-A1)	S2 (FCA2034-A1)	S3 (FCA2035-A1)
		Order no.: S54400-P154-A1	Order no.: S54400-P155-A1	Order no.: S54400-P156-A1
Management platform from Siemens	~	_	-	-
SintesoView, Sinteso Touch and BACnet 3 rd -party provider (supervision)	-	V	V	v
BACnet 3 rd -party provider (supervision and basic commands)	-	-	V	v
BACnet 3 rd -party provider (supervision and basic commands)	-	-	-	v
Sinteso Mobile	-	-	-	V



Housing (Eco) FH2001-A1 – Max. battery capacity: 2x7 Ah – 430x398x80 mm (WxHxD) Optional: power supply kit (70 W)

- FP2003-A1 – Optional: event printer FTO2001-A1 – Optional: 48 or 96 display groups each
- with one green/red and one yellow LED (overall) Order no.: A5000016865

- Housing (Standard) FH2002-A1 - Max. battery capacity: 2x12 Ah – 430x398x160 mm (WxHxD)
- Optional: power supply kit (70 W) FP2003-A1 or
- Optional: power supply kit (150 W) FP2004-A1 and additional power supply (150 W) FP2005-A1 - Optional: event printer FTO2001-A1
- Optional: 48 or 96 display groups each with one green/red and one yellow LED (overall) Order no.: A5Q00018931

Housing (Comfort) FH2003-A1

- Max. battery capacity: 2x26 Ah – 430x796x160 mm (WxHxD) Optional: power supply kit (70 W)
- FP2003-A1 or Optional: power supply kit (150 W) FP2004-A1 and additional power
- supply (150 W) FP2005-A1 - Optional: event printer FTO2001-A1 Optional: 48 or 96 display groups each with one green/red and one vellow LED
- (overall) Order no.: A5Q00009906



Power supply kit A (70 W) FP120-71

The autonomous power supply converts the mains voltage to system voltage and charges the batteries. Order no.: \$54400-\$122-A1

Power supply kit (70 W)

FP2015-A1 For the independent power supply of fire terminals such as FT2040. Order no.: S54400-B121-A1



The event printer FTO2001-A1 is installed directly in the control panel or in the terminal. It is a thermal printer which logs all events. An RS232 module (isolated) FCA2001-A1 is required for operating the event printer. This is not contained in the printer set and must be ordered separately.

Order no.: A5Q00010126















Monitored external event printer for serial connection or via Ethernet. Optional: RS232 module (isolated) FCA2001-A1 Order no.: A5Q00023962



Housing (Large extension)

- Max. battery capacity: 2x65 Ah – 430x398x260 mm (WxHxD) – Optional: power supply kit (70 W) FP2003-A1 or
- Optional: power supply kit (150 W) FP2004-A1 and additional power supply (150 W) FP2005-A1
- Optional: event printer FTO2001-A1 Optional: 48 or 96 display groups each with one green/red and one yellow LED (overall)
- Order no.: A5Q00018778

Housing (Large) FH2005-A1 Housing for larger batteries

- Max. battery capacity: 2x65 Ah
- 430x796x260 mm (WxHxD) - Optional: power supply kit (70 W) FP2003-A1 or
- Optional: power supply kit (150 W) FP2004-A1 and additional power
- supply (150 W) FP2005-A1 - Optional: event printer FTO2001-A1
- Optional: 48 or 96 display groups each with one green/red and one yellow LED (overall) Order no.: A5000019543

19" mounting kit FHA2016-A1

Enables all fire control panels and operator terminals to be mounted in a 19" frame: 430x100x324 mm (WxHxD) Order no.: A5Q00020179

Power supply kit (150 W) FP2004-A1

Power supply for installation in empty housings. Optional: Additional power supply with FP2005-A1 is possible. Order no.: A5000020825

Additional power supply (150 W) FP2005-A1

Additional power supply can be connected in the housing directly after FP2004-A1. Order no.: A5Q00018779