

Sinteso panels, network and accessories

Planning Tool

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Topology 1

can be networked.

Ethernet

Without connection to

networked in a cluster.

Characteristics of topology example

Topology 2

Characteristics of topology example

Configurable view of each panel

- Optional danger management system

Remote access with Building X Fire Apps

- EN 54-compliant networking of up to 64 panels via backbone

- Forewarding of degrade alarm over the FCnet/LAN is with MoNet module implemented

– Better performance on BACnet communication from stations to Management platform

- Redundant transmission thanks to circular wiring

- Common remote transmission to the fire brigade

- Increased EMC protection thanks to fiber-optic cabling

- Operation of panels as standalone solution or

Existing cable infrastructure can be used

networked with a total length of up to 1,280 km

Easy networking of panels

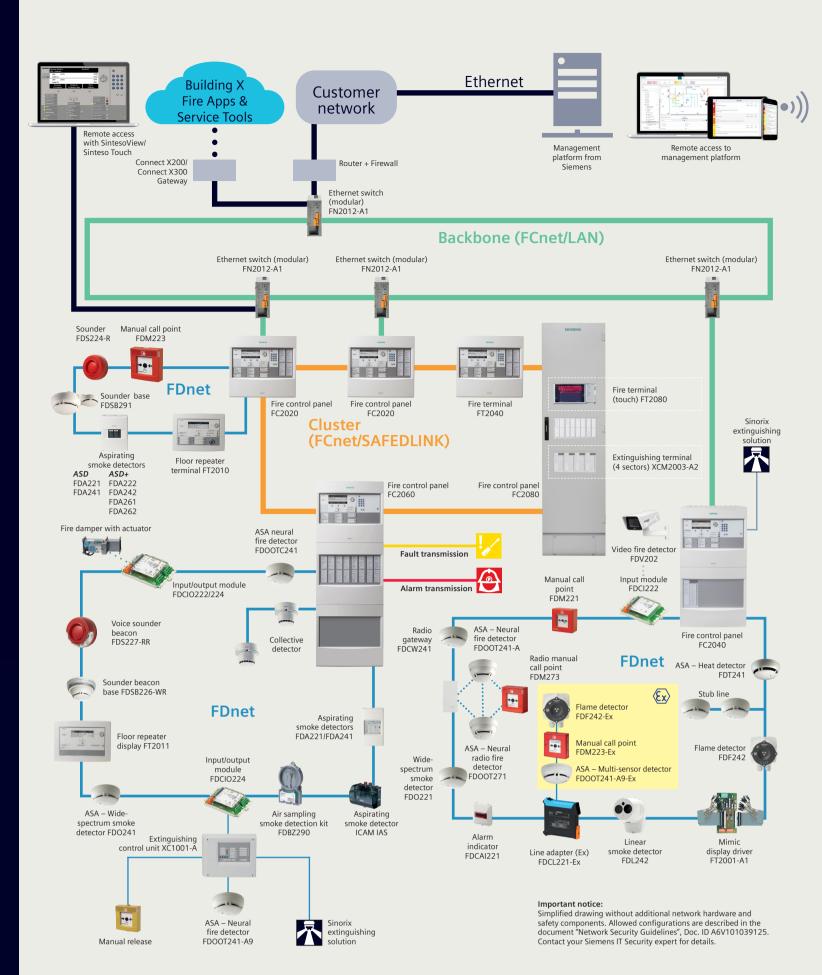
siemens.com/smart-infrastructure Creating environments that care.

and supports sustainable development.

people and helps customers to better use resources. an ecosystem that intuitively responds to the needs of We work together with customers and partners to create

buildings and industries to adapt and evolve the way we live Smart Infrastructure intelligently connects energy systems,

Sinteso – Because smarter protection matters



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

L-----

connected to a danger management system:

– Max. distance between panels with copper cable:

Max. number of panels with system-wide view:

Ethernet switch (modular) Backbone (FCnet/LAN) Ethernet switch (modular) FN2012-A1 Ethernet switch (modular) FN2012-A1

1 km

2 km

40 km

The FC2080 fire control panel and the FG2020

4 km

gateway can't be integrated into "FCnet/LAN

without Subnetwork"

multi-mode

– Max. number of panels:

- Max. distance between panels:

- Max. number of networkable panels: - Max. number of networkable panels if

Max. distance between panels with

Up to 64 panels in one EN 54-compliant system using a backbone (FCnet/LAN) without

Simplified drawing without additional network hardware and safety com-ponents. Allowed configurations are

described in the document "Network

Siemens IT Security expert for details.

Kev data

without repeater:

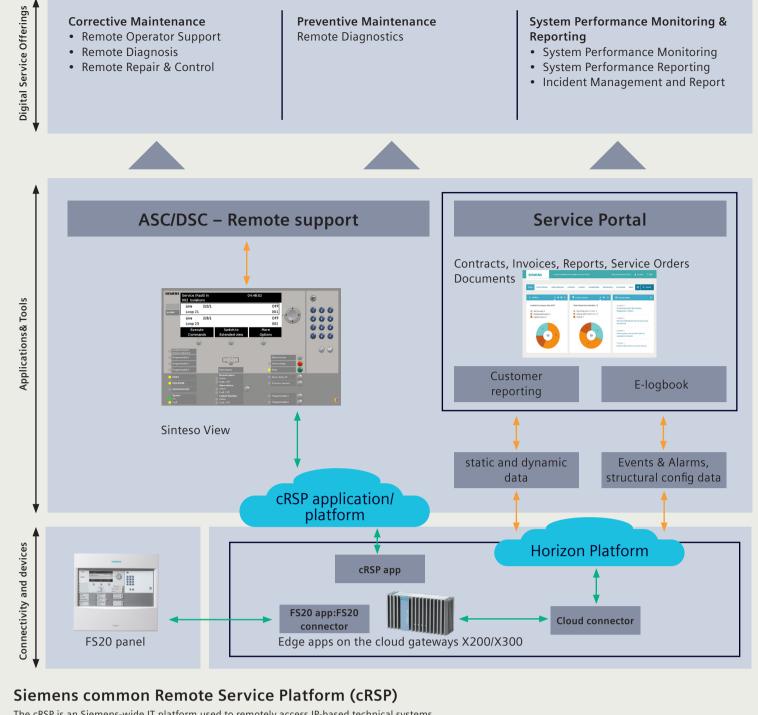
fiber-optic cable:

• with repeater (FN2002-A1):

• single mode (FN2006-A1):

subnet, with connection to a management platform via a customer network.

Digital Service offerings with FS20 Sinteso system



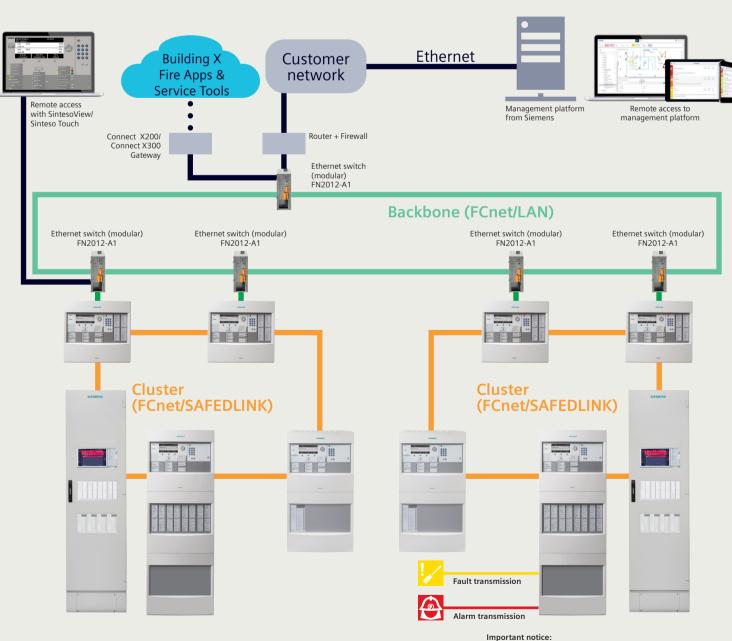
- The cRSP is an Siemens-wide IT platform used to remotely access IP-based technical systems.
- Security, fire safety and comfort systems can be connected to the cRSP.
- Using cRSP, employees can view the customer systems for which they are authorized.
- The platform meets very strict security standards. Siemens was one of the first organizations in the world to implement an internationally recognized information security management system (ISMS) for remote services in accordance with ISO/IEC 27001.

Service Portal Features

- View and manage contracts and invoices
- View installed systems and history
- · Request support and open tickets
- Track service tickets
- Generate and view reports
- View latest system status with E-logbook

Topology 3

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.



Simplified drawing without additional network hardware and safety components. Allowed configurations are described in the document "Network Security Guidelines", Doc. ID A6V101039125. Contact your Siemens IT Security expert for details.

- Characteristics of topology example
- EN 54-compliant networking of up to 64 panels via backbone and cluster Extensive networks spanning long distances Highest system availability thanks to system-
- Panels in different clusters can communicate with each other - Even with these network structures, a
- system-wide transmission system including firefighting periphery can be implemented at a central contact point Distributed building complexes can be

Backbone realized with fiber-optic cable

ideally protected

Key data

- Max. number of networkable panels incl. clusters (EN 54-compliant):
- Max. number of clusters: - Max. number of networkable panels

Number of panels with system-wide view:

Sinteso control panel FC2080 uniquely safe and flexible

Power supply 3 Power supply 1 to 4x** Carrier (19", power supply) FHA2022-A1 - 19" carrier incl. 2x power supply (150 W) cascaded Order no.: \$54400-B24-A1 Power supply kit (150 W, B) FP2005-A1 0 to 1x per each FHA2022-A1 – For extending the FHA2022-A1 by 150 W Order no.: A5000018779 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.: \$54400-B23-A1

Mechanical installation 4 19" carriers Carrier (19", card cage) FHA2023-A1 0 to 3x - For max. 2x card cages (5 slots) FCA2008-A1

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

Extinguishing carrier (19", card cage) FHA2058-A1 0 to 2x - For max. 4x card cages FCA2046-A1

Order no.: \$54392-B7-A1 **Extensions fire**

Order no.: \$54400-B25-A1

Order no.: \$54400-B26-A1

5a Card cage 0 to 6x Card cage (5 slots) FCA2008-A1 - Slots for max. 5 module bus cards Order no.: \$54400-B28-A1

6a Module bus cards 0 to 37x Housing (19" pedestal cabinet) FH2080-AA - Housing incl. base, door and plan compartmen Line card (FDnet) FCL2001-A1 0 to 30x - 4x FDnet lines and max. 252 addresses 601x2204x615 mm (WxHxD) Order no.: A5Q00009875 Line card (collective) FCL2002-A1 0 to 30x

– 8x collective lines 2 Processor unit 1x* Order no.: A5Q00010502 Processor unit (19", FC2080) FCC2002-A1 1x – Card cage (CPU) with Line card (MS9i) FCL2003-A1 0 to 30x

(SAFEDLINK, CC) FN2010-A1 Order no.: A5Q00010044 Communication card (FC2080) incl. network module (SAFEDLINK, CC) FN2010-A1 Line card (AnalogPLUS) FCL2005-A1 0 to 30x • 1 free slot for an optional second 4x AnalogPLUS lines and max. 126 addresses CPU card (FC2080) 2 free slots for module bus cards Order no.: S54400-A107-A1

Line card (interactive) FCL2006-A1 0 to 30x Cable kit for connecting an optional operating t – 1x interactive line and max. 126 addresses Order no.: \$54400-A108-A1

- 2x MS9i lines and max. 100 addresses

Line card (interactive Ex) FCL2007-A1 1x interactive Ex line and max. 32 addresses Order no.: \$54400-A134-A1

I/O card (FUE) FCI2007-A1 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.: \$54400-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.: \$54400-A21-A1 **Extensions extinguishing**

5b Card cage 0 to 8x Card cage (1 sector) FCA2046-A1

Order no.: \$54392-B8-A1 Cable kit (FCA2046-XCM2003) FCA2051-A1

XCM2003-A2 - 1x per extinguishing secto Order no.: \$54392-K13-A1

Cable kit (FCA2046-FCA2046) FCA2049-A1 Connection to the next FCA2046 card cage Order no.: S54392-K15-A1

Cable kit (FHA2053-FHA2053) FCA2048-A1 Connection to the next FHA2053 carrier

Order no.: S54392-K16-A1 Cable kit (2nd 19", FCA2053) FCA2050-A1 - Connection to the second 19" housing

Order no.: S54392-K14-A1

6b Extinguishing cards 0 to 8x Extinguishing card XCI2005-A1 0 to 8x

Order no.: S54392-A7-A1 Operation

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

8 Operating add-ons 0 to 2x*** Operating add-on (2xLED display) FCM2038-A2 0 to 2x per operating unit Order no.: \$54400-B146-A1

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

9 Extinguishing terminal 0 to 2x Extinguishing terminal (4 sectors) XCM2003-A2 Order no.: S54392-B4-A1 Extinguishing terminal (1 sector) XCM2002-A2

Order no.: S54392-B3-A1 * Number of units to be installed

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

Integrated Extinguishing control planning

Single-sector extinguishing

1

Basic equipment

Dimensions incl. base:

Order no.: \$54400-C103-A1

• CPU card (FC2080) incl. network module

 Card cage (5 slots) with slots for max. 5 module bus cards

CPU card (FC2080) FCC2004-A1 0 to 1x

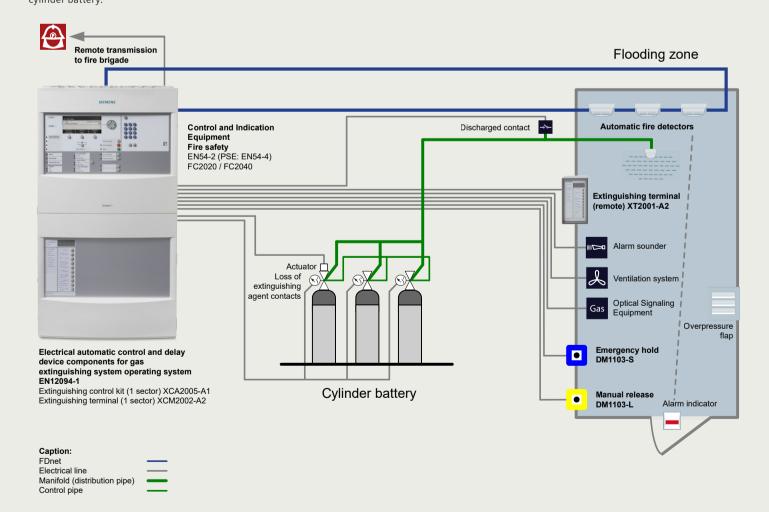
- Second CPU card for redundant operation

Order no.: S54400-B17-A1

Order no.: \$54400-A18-A1

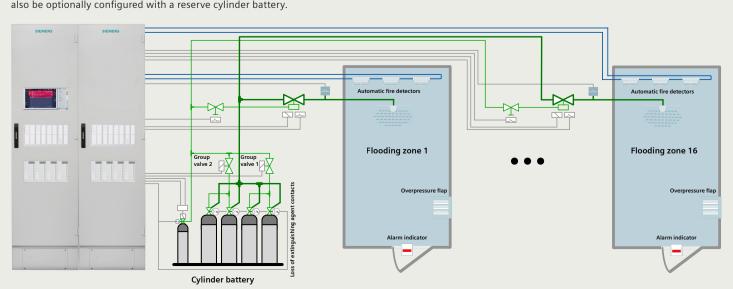
1 Pedestal cabinet 1x*

Combined fire detection and extinguishing control panel FC20 operating as a single-sector extinguishing system. FC20 works with most types of extinguishing systems for room or object protection. A single-sector installation consists of a single flooding zone and cylinder bank. In case of a fire, the extinguishing agent flows through the manifolds to the flooding zone and is distributed there by the nozzles. The system can be optionally configured with a reserve



Multi-sector extinguishing

Combined fire detection and extinguishing control panel FC2080 operating as a multi-sector extinguishing system. A multi-sector installation consists of a single cylinder bank shared with multiple flooding zones, via selector valves. In case of a fire in one of the flooding zones, the corresponding selector valve is opened and the necessary groups of cylinders are released. The extinguishing agent flows through the manifolds to the flooding zone. The system can



It helps our customers to thrive, communities to progress

Sinteso Planning Tool Panels, network and accessories

Fire Apps & Service

Connect X200/

Connect X300

Gateway

SintesoView/Sinteso Touch

Fire control panel FC2020-AZ

Optional: event printer FTO2001

- Max. battery capacity: 2x12 Ah

Fire control panel FC2020-EZ

- 24 display groups each with one green/

Optional: key switch KABA FTO2005

- Standard: 430x398x160 mm (WxHxD)

Fire control panel FC2020-AA

- Optional: event printer FTO2001

- Optional: 48 or 96 display groups

each with one green/red and one

Comfort: 430x796x160 mm (WxHxD)

- Max. battery capacity: 2x26 Ah

Optional: key switch KABA FTO2005

Operating unit

Operating add-on

yellow LED (overall)

– 150 W power supply

Order no.: \$54400-C33-A6

Max. battery capacity: 2x12 Ah

Order no.: \$54400-C33-A1

Optional: key switch KABA FTO2005

Housing
- Standard: 430x398x160 mm (WxHxD)

consisting of:

consisting of:

Operating unit

red and one vellow LED

Order no.: S54400-C33-A3

70 W power supply

40 km

Operating unit

– 70 W power supply

Customer

network

Router + Firewall

Ethernet switch

(modular)

FN2012-A1

System-wide view

with the fire terminal

FT2040-AT

Backbone (FCnet/LAN)

Cluster (FCnet/SAFEDLINK)

Fire control panel FC2020 (2-loop)

The FC2020 is a compact 2-loop fire control panel.

It has the following features:

Integrated operating unit

Integrated power supply

Automatic configuration

Technical data

FDnet detector lines

4 loops/8 stubs

Inputs and outputs

2 FDnet loops with 1.5 A line driver

- Networkability via FCnet/SAFEDLINK

– Number of addresses: max. 252

Number of loops/stubs: 2/4

– Optional with loop extension:

– 1 relay output for RT alarm

- 1 relay output for RT fault

- 1 monitored alarm output

1 monitored fault output

1 monitored sounder output (1 A)

- 8 configurable inputs/outputs 24 V

– Optional: sounder module for splitting the

Fire control panel FC2020-AE

- Optional: event printer FTO2001

Optional: key switch KABA FTO2005

- 48 display groups each with one green,

Optional: 96 display groups each with

one green/red and one vellow LED

- Comfort: 430x796x160 mm (WxHxD)

- Max. battery capacity: 2x26 Ah

consisting of:

Operating unit

Operating add-on

red and one yellow LED

- 150 W power supply

Order no.: \$54400-C33-A7

sounder line output into 4 monitored outputs (2 A)

1 Ethernet connection (RJ45)

Integrated inputs/outputs for peripherals

SintesoView/Sinteso Touch 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 network.

Backbone (FCnet/LAN)

Clusters can be networked via an Ethernet back bone, 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)

- 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

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.

* more with appropriate system topology

Cluster (FCnet/SAFEDLINK)

Via the powerful FCnet/SAFEDLINK, up to 32 panels can be networked (fire control panels and fire 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 mode; even for systems with more than 512 fire

 Configurable view of individual panels - 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: 1 km With repeater: 2 km – Max. distance between panels with fiber-optic cable Multi mode (FN2007-A1): 4 km

• Single mode (FN2006-A1): – Max. number of panels with system-wide view:

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

- 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

Detailed planning information

Detailed information for planning of the system are available in the planning document, Doc. ID 008843.

Management platform

Management platform Remote access to

from Siemens

Fire control panel (4-loop)

- Optional: event printer FTO2001

- Optional: 48 or 96 display groups

Large: 430x796x260 mm (WxHxD)

- Max. battery capacity: 2x45 Ah

each with one green/red and one

- Optional: key switch KABA FTO2005

FC2040-GA*

Operating unit

Operating add-on

yellow LED (overall)

– 150 W power supply

Order no.: S54400-C35-A8

* (Figure analog to FC2040-AA)

management platform

Simplified drawing without additional network hardware

described in the document "Network Security Guidelines"

Doc. ID A6V101039125. Contact your Siemens IT Security

Fire control panel

Optional: event printer FTO2001

- Optional: 48 or 96 display groups

each with one green/red and one

- Comfort: 430x796x160 mm (WxHxD)

Ethernet switch

(modular)

FN2012-A1

- Max. battery capacity: 2x26 Ah

Fire control panel FC2040 (4-loop)

The FC2040 is a compact 4-loop fire control panel. FDnet detector lines

Description

or Ethernet

It has the following features:

Integrated operating unit

- Integrated power supply

Automatic configuration

Fire control

panel with

control

extinguishing

- 4 FDnet loops with 1.5 A line driver

Networkability via FCnet/SAFEDLINK

Integrated inputs/outputs for peripherals

Optional: key switch KABA FTO2005

FC2040-AA

Operating unit

Operating add-on

vellow LED (overall)

– 150 W power supply

Order no.: S54400-C35-A1

consisting of:

and safety components. Allowed configurations are

The building management platform Desigo CC™ is connected via Ethernet. It is either directly connected to the backbone (via Ethernet switch)

the management platform.

Fire control pane

FC2040-AE

consisting of:

Operating unit

Operating add-on

- 150 W power supply

Order no.:S54400-C35-A2

- Number of addresses: max. 504

- Optional with loop extension: 8 loops/16 stubs

- 2 monitored sounder outputs (1 A each)

Optional: sounder module for splitting

Fire terminal FT2040/FT2080

The FT20xx has the following features: — DC 24 V system power supply

Separate DC 24 V supply input possible
 FT2040: 430 mA

Technical data

Alarm current: 130 mA

consisting of:

Operating unit

- 12" color display

Resolution 1280x800 pixels

Order no.: \$54400-C120-A1

Standard (FH2002-A1)*

Back (FHA2039-A1)*

- Desktop (FHA2040-A1)*

* must be ordered separately

- Fire terminal board (FTI2001-A1)*

Fire terminal (touch) FT2080-A1

the sounder line output into 4 monitored

12 configurable inputs/outputs 24 V

Number of loops/stubs: 4/8

1 relay output for RT alarm

1 relay output for RT fault

1 monitored alarm output

1 monitored fault output

Inputs and outputs

Description

or Ethernet

consisting of:

Operating unit

(FH2001-G1)

Order no.: A5Q00016702

Integrated operating unit

Fire terminal FT2040-AZ

Optional: event printer FTO2001

- Eco: 430x398x80 mm (WxHxD)

Optional: 70 W power supply

Max. battery capacity: 2x7 Ah

Optional: key switch KABA FTO2005

- Optional: 48 or 96 display groups each

in Eco housing with 48 display groups

(FH2001-E1) or with 96 display groups

with one green/red and one yellow LED

Redundant DC 24 V supply input

Networkability via FCnet/SAFEDLINK

- Optional: event printer FTO2001

- 48 display groups each with one

green/red and one yellow LED

- Optional: key switch KABA FTO2005

- Optional: 96 display groups each with

one green/red and one yellow LED

- Comfort: 430x796x160 mm (WxHxD)

- Max. battery capacity: 2x26 Ah

or via the customer network. In each case the adequate safety measures (e.g. Firewall, etc) have to be used. Web clients and apps for smartphore

Network components Third-party interface

Modbus gateway NK8237.2 The NK8237 is used as a gateway between Sinteso and Modbus devices. and tablets provide remote access to t provides for bidirectional Modbus RTU and TCP connectivity to Sinteso fire protection systems. It has protection, routing and logging capabilities built in. The gateway does not replace the firewall which protects the Sinteso

FC2040-AG

consisting of:

96 display groups each with one

- Comfort: 430x796x160 mm

– Max. battery capacity: 2x26 Ah

150 W power supply

In the basic version each FC2040

Monitoring of 2 conventional

----- Fault transmission

Order no.: S54400-C35-A3

Order no.: S54400-B152-A1 The Ethernet switch connects clusters to the backbone. In case of increased redundancy requirements, a cluster can be linked to the backbone using a second panel and a second

Backbone

switch. This applies, for example, for clusters with more than 512 detectors/manual call points or clusters with remote transmission in systems with more than 512 detectors. - 2 slots for optional Ethernet modules (ring). These must be ordered separately:

 VN2001 Ethernet module (copper/electric) system against unauthorized access and cyber attacks. Order no.: \$54400-A42-A7 Order no.: S54461-C7-A1 VN2002 Ethernet module (multi mode) optical Ethernet, max. 4 km

Order no.: \$54400-A43-A1 Fire control panel • VN2003 Ethernet module (single mode), optical Ethernet, max. 40 km Order no.: \$54400-A44-A1 Operating unit

Fire control panel

FC2030 (modular)

It has the following features:

Integrated operating unit

Integrated power supply

Automatic configuration

Technical data

FDnet detector lines

Inputs and outputs

- Number of addresses: max. 756

– 1 relay output for RT alarm

– 1 relay output for RT fault

1 monitored alarm output

1 monitored fault output

1 monitored sounder output (1 A)

– 8 configurable inputs/outputs 24 V

line output into 4 monitored outputs

1 Ethernet connection (RJ45)

– Number of integrated loops/stubs: 2/4

- Optional: extendable up to 12/24 loops/stubs

– Optional: sounder module for splitting the sounder

The FC2030 is a modular fire control panel.

Integrated inputs/outputs for peripherals

– Networkability via FCnet/SAFEDLINK or Ethernet

- 2 FDnet loops with 1.5 A line driver

Description

- Fault output: relay contact, floating Optional: event printer FTO200 The FN2012-A1 additionally needs the connection module Optional: key switch KABA (MoNet) FCA2031-A1 Order no.: S54400-A153-A1 Operating add-on For installation in panels or additional housings,

use the following installation kits: - FHA2029-A1 for Eco, Standard, Comfort housings Order no.: S54400-B79-A1 - FHA2030-A1 for Large, Large Extension housings

Ethernet switch (modular) FN2012-A1,



Order no.: \$54400-B81-A1

Connect X300 Gateway CXG3.X300 Connect X300 gateway is connecting to a wide range of both Siemens and third-party building Thanks to this gateway, the Fire Safety Systems

can be connected to the cloud, and therefore be upgraded with various digital use-cases Order no.: S55842-Z121-A100

Optical fiber networking



With these optical fiber networking modules, Sinteso stations can be linked to the FCnet/SAFEDLINK system bus ove great distances by glass fiber cable. The redundant feed allows EN 54-compliant networking even if the networking module is remote.

 Two independent, galvanically separated channels - SC connections for optical cables

- FN2006-A1: Single-mode transmission up to 40 km Order no.: S54400-A109-A1 transmission up to 4 km

Fiber-optic converter

modules FN2006-A1 (SM) and FN2007-A1 (MM)

EN 54-approved - Earth fault monitoring - Installation in the station or remote



Connect X200 Gateway CXG3.X200 Connect X200 is a cost-effective gateway, connecting to a wide range of both Siemens and third-party building products. It has the possibility to be mounted

Thanks to this gateway, the Fire Safety Systems can be connected to the cloud, and therefore be upgraded with various digital use-cases. Order no.: S55842-Z131-A100

inside the panel.

Order no.: S54400-S115-A1 Mounting plate (X200) FHA2063-A1 Order no.: S54400-B116-A1

Characteristics:



Repeater (SAFEDLINK) FN2002-A1

A separate power supply is needed.

Order no.: S24236-B2502-A1

The FC2060 is a modular fire control panel

- 5 slots for additional module bus cards

Integrated inputs/outputs for peripherals

- 4 FDnet loops with 1.5 A line driver

Networkability via FCnet/SAFEDLINK

- Number of addresses: max. 1,512

Number of integrated loops/stubs: 4/8

- 2 monitored sounder outputs (1 A each)

Optional: sounder module for splitting the

sounder line output into 4 monitored outputs

Fire control panel FC2060-AA

- Optional: event printer FTO2001

- Optional: 48 or 96 display groups,

each with one green/red and one

Large: 430x796x260 mm (WxHxD)

power supplies (FP2005-A1)

- Max. battery capacity: 2x45 Ah

- Optional: up to two 150 W additional

Optional: key switch set KABA

- 12 configurable inputs/outputs 24 V

- 1 Ethernet connection (RJ45)

Optional: extendable up to 28/56 loops/stubs

It has the following features:

Integrated operating unit

- Integrated power supply

- Automatic configuration

Technical data

FDnet detector lines

Inputs and outputs

each FC2060 control

Monitoring of 2

consisting of:

FTO2005

Operating add-on

vellow LED (overall)

– 150 W power supply

Order no.: \$54400-C36-A1

Operating unit

- 1 relay output for RT alarm

- 1 relay output for RT fault

- 1 monitored alarm output

- 1 monitored fault output

or Ethernet

(modular)

Description

The repeater doubles the range between

Fire control panel FC2060

2 FCnet stations (from 1,000 m to 2,000 m).

- Two redundant, monitored power feeds

Can be installed upright or horizontally

Order no.: S54400-A110-A1



Accessory kit + ACDC (X200) FCA2056-A1

Line card (FDnet, P) Line card (collective) (interactive Ex) FCL2003-A1 FCI2007-A1 FCL2008-A1 FCL2002-A1 For 2 MS9i address-FCI 2005-A1 FCI 2006-A1 FCI 2007-A1 For alarm and fault FCI2008-A1 FCI2009-A1 able lines (max. 100 For 4 addressable For 1 addressable For 1 addressable 12 programmable 8 monitored AnalogPLUS lines interactive Ex line 4 loops or 8 stubs on 8 stubs (MS7/9, MS24, addresses). interactive line inputs/outputs with sounder lines or (max. 126 addresses (max. 32 addresses). (max. 126 addresses) monitored output selectable behavior SynoLINE600, FDOOT241-9 A5Q00010044 in degrade mode. Order no. and FDOOT241-A9). S54400-A108-A1 S54400-A134-A1 S54400-A21-A1 S54400-A107-A1 S54400-A6-A1 Order no.: A5Q00010502 Network module (SAFEDLINK) RS485 module (isolated) FCC2004-A1 FCA2005-A1 XCI2005-A1 FCA2002-A1 networked via the cluster. For this CPU operation. This module is ating the following modules: it possible to double the has connections for 4 - Module for one extinguishing sector purpose it is necessary to install a

 Fire brigade display panel (FAT) [DE] number of loops (e.g. from 2 loops to 4 loops or from S54400-A18-A1 integrated fire brigade operating an event printer. It panel (FAT and FBF) [DE & CZ] UGA 20 [FR] The RS485 module (isolated) is in the set for the Order no.: A5Q00009923

4 loops to 8 loops) while 4x up to number of addresses on the The sounder modperiphery board (e.g. ule is screwed to loops with 126 addresses the assembly plate each or 4 loops with 63 ad- FHA2007-A1.

(actuators, alarm and peripheral device - 6 driver outputs Order no.: S54392-A7-A1 Card cage (1 sector exting.) FCA2046-A1

Card holder for one extinguishing card Order no.: \$54392-B8-A

FH2004-A1

FP2003-A1 or

Housing for larger batteries

- Max. battery capacity: 2x65 Ah

Optional: power supply kit (70 W)

Optional: power supply kit (150 W)

Optional: event printer FTO2001-A1

- Optional: 48 or 96 display groups each

with one green/red and one yellow LED

FP2004-A1 and additional power

supply (150 W) FP2005-A1

Order no.: A5Q00018778

Housing (Large) FH2005-A1

Max. battery capacity: 2x65 Ah

Optional: power supply kit (70 W)

Optional: power supply kit (150 W)

Optional: event printer FTO2001-A1

19" frame; 430x100x324 mm (WxHxD)

FP2004-A1 and additional power

supply (150 W) FP2005-A1

- 430x796x260 mm (WxHxD)

Housing for larger batteries

FP2003-A1 or

- 430x398x260 mm (WxHxD)

FC2080 Only usable on periphery board

For example for:

FC2020

FC2030

FC2040

Fire control panel FC2080

The FC2080 is a modular fire control panel

(modular)**

It has the following features:

Communication card

SAFEDLINK modules

- Power supply up to 450 W

Optional operating unit

Technical data

FDnet detector lines

module bus cards

Optional: extendable

up to 120/240 loops/stubs

- Max. 37 slots for additional

• Max. 30 FDnet line cards

Max. 30 MS9i line cards

Max. 30 collective line cards

Max. 30 AnalogPLUS line cards

Max. 30 interactive Ex line cards

Max. 10 programmable I/O cards

** for further details, please see front page

Floor repeater display

Shared properties

Order no.: A5Q00017706 area.

Backlit display with plain text display

(6 lines of 40 characters each)

Power supply and communication

additional 24 V supply possible

– 282x207x79 mm (WxHxD)

•••••

(individually addressed) via FDnet,

Max. 8 FT2010/FT2011 per FC2020

– Max. 16 FT2010/FT2011 per FC2040

– Max. 50 FT2010/FT2011 per FC2060

• Max. 7 I/O cards for alarm and fault transmission

Max 16 extinguishing sectors (8 sectors per housing)

and operating add-ons FCM2007-A1 and SCM2003-A2 built in.

Note: Picture shows FC2080 with optional fire terminal (touch) FT2080

Used for the display of mes- Used for the display and control

sages from the monitored area. of messages from the monitored

• Max. 7 I/O cards for monitored sounder lines

• Max. 30 interactive line cards

(hot pluggable)

Housing (19" pedestal cabinet)

- Processor unit (19", FC2080) with

Optional: redundant 2nd CPU card

Slots for max. 7 module bus cards

- Networkability via FCnet/SAFEDLINK

Number of addresses: max. 5,000

Max. 6 additional card cages (5 slots)

Description

CPU card

512 FDnet devices

than 512 FDnet devices

Order no.: A5Q00012851

network module. In case of additional

requirements in terms of the degrade

mode function, 2 network modules ca

- Networked panels with more than

- Networked panel with connection to

remote transmission and with more

Extension and networking options

S54400-P157-A1 S54400-P154-A1 S54400-P155-A1 S54400-P156-A1 Management platform from Siemens intesoView, Sinteso Touch and BACnet 3rd-party provider (supervision) BACnet 3rd-party provider (supervision and basic commands) BACnet 3rd-party provider supervision and extended commands BACnet 3rd-party provider (activation and deactivation commands)

Housings

A5Q0000532

- 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.: A5Q00016865

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 yellow LED



- Optional: 48 or 96 display groups each with one green/red and one yellow LED (overall) Order no.: A5Q00019543 19" mounting kit FHA2016-A1 Enables all fire control panels and operator terminals to be mounted in a

Order no.: A5Q00020179

Power supply

(overall)

Order no.: A5Q00009906



Power supply kit A (70 W) FP120-Z1 The autonomous power supply converts the mains voltage to system voltage and charges the batteries. Order no.: S54400-S122-A1





FP2004-A1 Power supply for installation in empty housings. Optional: Additional power supply with FP2005-A1 is possible.

Order no.: A5Q00020825

Power supply kit (150 W)

Additional power supply (150 W) FP2005-A1

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

Operating add-ons Extinguishing terminal (1 sector)

Legend for the interfaces: One each optional RS232 and/or per control panel or terminal Backbone (FCnet/LAN) Network to connect clusters

RS485 interface (can also be freely combined) Cluster (FCnet/SAFEDLINK) Network to connect panels Network to connect Sinteso devices



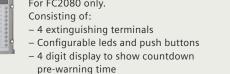
Consisting of: - 1 extinguishing terminal Configurable leds and push buttons - 4 digit display to show countdown pre-warning time Order no.: \$54392-B3-A1



remote panel

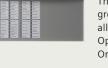
S54392-F2-A1

XCM2003-A2



Order no.: \$54392-B4-A1

Extinguishing terminal (4 sectors)



FCM2038-A2 his contains 48 display groups each with one tional: event printer FTO2001-A1 Order no.: S54400-B146-A1

Operating add-on (2xLED incl.)



FCM2036-A2 nis contains 96 display groups each with one green/red and one yellow LED. Any events can be alcated to the LEDs; 427x200x25 mm (WxHxD). Order no.: S54400-B147-A1

Operating add-on (4xLED incl.)

Fire control panel FC2030-AA

- Optional: event printer FTO2001

– Optional: key switch set KABA FTO2005

- Comfort: 430x796x160 mm (WxHxD)

- Max. battery capacity: 2x26 Ah

– Optional: 48 or 96 display groups, each with

one green/red and one yellow LED (overall)

consisting of:

Operating unit

Operating add-on

- 150 W power supply

Order no.: S54400-C34-A1



Kaba lock cylinder with installation ac-Order no.: A5Q00010113 Extinguishing key switch Kaba

Kev switch Kaba FTO2005-C1



Key set with mounting accescessories and keys Kaba 8 #100. Usable optionally for enabling operation.



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

Event printer FTO2001-A1



Monitored external event printer for serial connection or via Ethernet. Order no.: A5Q00023962

Event printer DL3750+

XCM2002-A2

For FC2080 only.

Fire control panel FC2020/2040-AA

with extinguishing control

- 2-loop panel FC2020-AA

Order no.: \$54400-C33-A6

- 4-loop panel FC2040-AA

Order no.: S54400-C35-A1

Order no.: S54392-B3-A1

Extinguishing terminal (1 sector)

Extinguishing control kit (1 sector)

Extinguishing card XCI2005-A1

Card cage connection FCA2006

– Accessory kit FCA2047-A1

Order no.: S54392-S20-A1

- Card cage (1 sector exting.) FCA2046-A1

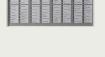
consisting of:

XCM2002-A2

XCA2005-A1

Fire control panel

reen/red and one yellow LED. Any events can be allocated to the LEDs: 427x200x25 mm (WxHxD).



XTO2002-C1

Order no.: S54392-B12-A1

Extinguishing key switch Nordic XTO2003-B1 Order no.: S54392-B11-A1

Floor repeater terminal

Order no.: A5Q00014104

Kev switch Nordic FTO2006-B1



Optional: RS232 module (isolated) FCA2001-A1