SIEMENS



Sinteso panels, network and accessories

Planing Tool

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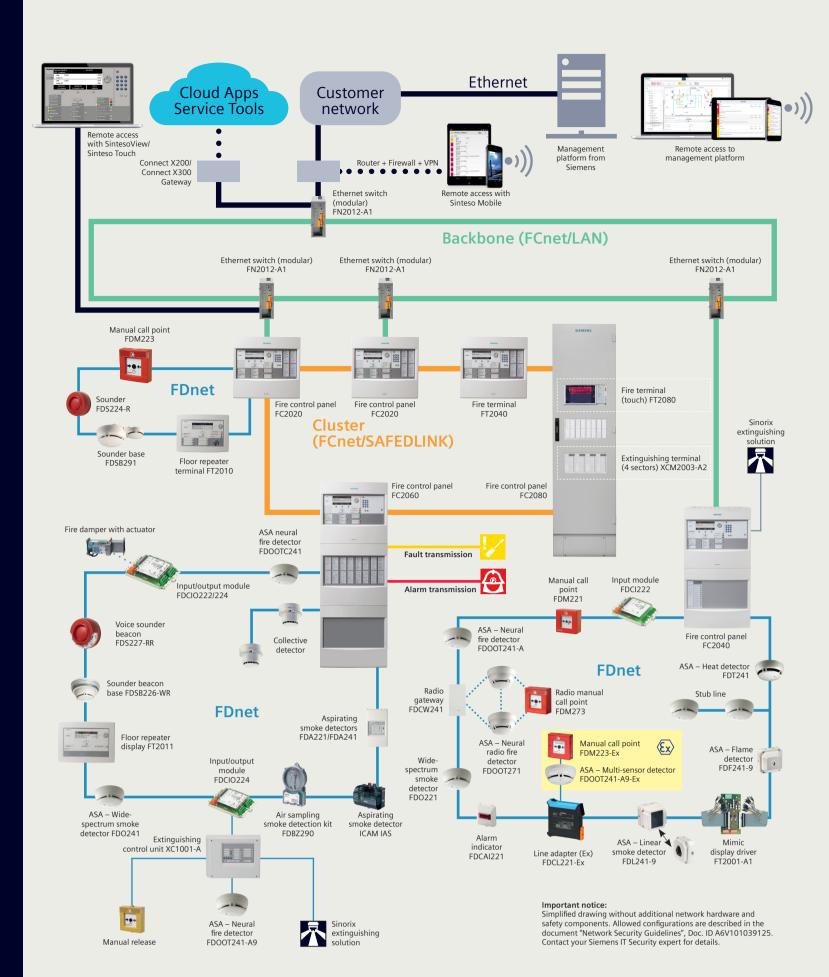
siemens.com/smart-infrastructure Creating environments that care.

and supports sustainable development. It helps our customers to thrive, communities to progress

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

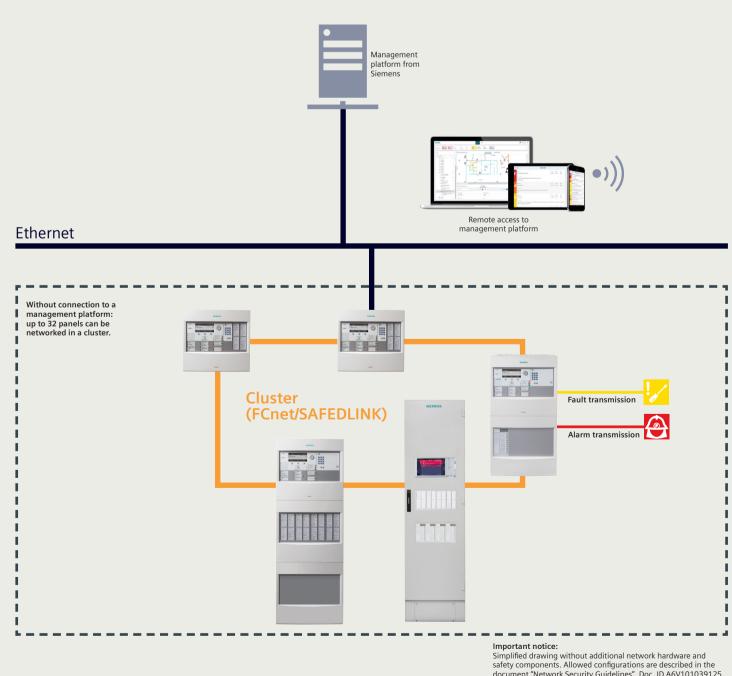
evil ew yew end evolve the way we live Smart Infrastructure intelligently connects energy systems,

Sinteso – Because smarter protection matters



Topology '

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



document "Network Security Guidelines", Doc. ID A6V101039125 Contact your Siemens IT Security expert for details.

Characteristics of topology example

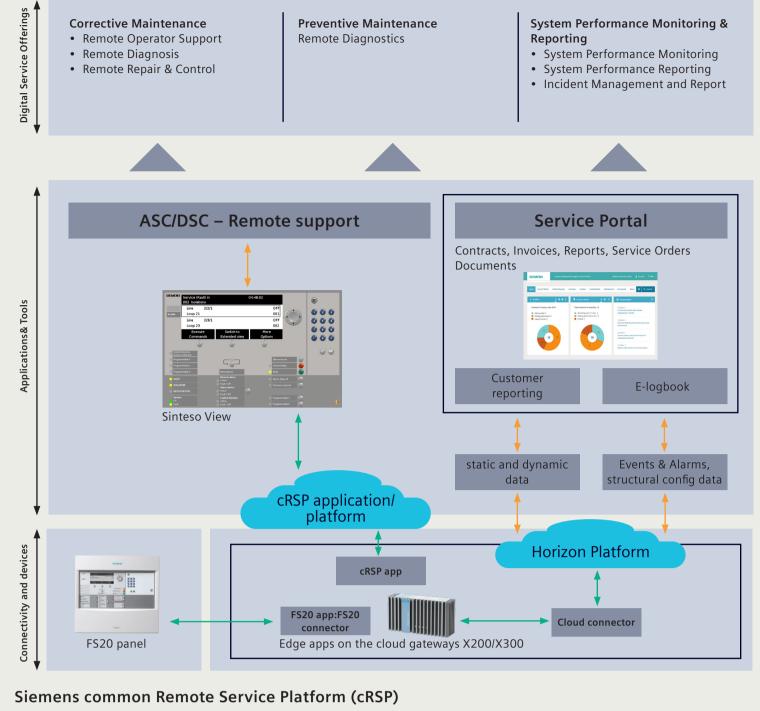
 Easy networking of panels - Operation of panels as standalone solution or networked with a total length of up to 1,280 km Existing cable infrastructure can be used

Kev data – Max. number of networkable panels: connected to a management platform: Max. distance between panels with · without repeater: with repeater (FN2002-A1): 2 km Max. distance between panels with fiber-optic cable: multi mode (FN2007-A1); 4 km single mode (FN2006-A1): 40 km

– Max. number of panels with

system-wide view:

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.

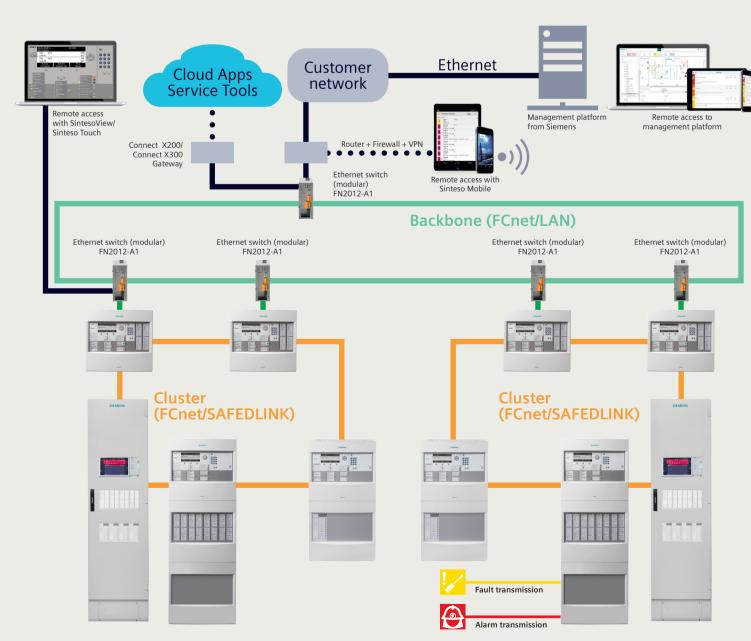
Service Portal Features

- 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 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.



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 - Max. number of networkable panels

- Extensive networks spanning long distances - Highest system availability thanks to systemwide redundancy - 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 ideally protected

Backbone realized with fiber-optic cable

Kev data

- Max. number of clusters: - Max. number of networkable panels Number of panels with system-wide view:

incl. clusters (EN 54-compliant):

Sinteso control panel FC2080 – uniquely safe and flexible



Basic equipment

1 Pedestal cabinet 1x* Housing (19" pedestal cabinet) FH2080-AA - Housing incl. base, door and plan compartment - Dimensions incl. base: 601x2204x615 mm (WxHxD) Order no.: \$54400-C103-A1

2 Processor unit 1x*

- Processor unit (19", FC2080) FCC2002-A1 1x - Card cage (CPU) with CPU card (FC2080) incl. network module (SAFEDLINK, CC) FN2010-A1 Communication card (FC2080) incl. network module (SAFEDLINK, CC) FN2010-A1
- 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 t
- Order no.: \$54400-B17-A1 CPU card (FC2080) FCC2004-A1 0 to 1x - Second CPU card for redundant operation Order no.: \$54400-A18-A1

3 Power supply 1 to 4x** Order no.: \$54400-A20-A1 Carrier (19", power supply) FHA2022-A1

0 to 10x Order no.: \$54400-A6-A1

Power supply kit (150 W, B) FP2005-A1 I/O card (sounder/monitored) FCI2009-A 0 to 1x per each FHA2022-A1 0 to 7x - For extending the FHA2022-A1 by 150 W 8x monitored outputs

Order no.: \$54392-B8-A1

Multi-sector extinguishing Cable kit (FCA2046-XCM2003) FCA2051-A1

Order no.: \$54392-K13-A1 Carrier (19", option) FHA2024-A1 0 to 8x Cable kit (FCA2046-FCA2046) FCA2049-A1

- For options, max. height 135 mm on two-leve hat rail, length 430 mm; max. 1x key safe Order no.: \$54392-K15-A1 adapter SDA 300 (IFAM co.) Order no.: S54400-B26-A1 Cable kit (FHA2053-FHA2053) FCA2048-A1

Extinguishing carrier (19", card cage) FHA2058-A1 0 to 2x - For max. 4x card cages FCA2046-A1 Order no.: \$54392-B7-A1

Extensions fire 5a Card cage 0 to 6x

Card cage (5 slots) FCA2008-A1 Order no.: \$54400-B28-A1

Line card (FDnet) FCL2001-A1 0 to 30x - 4x FDnet lines and max. 252 addresses Order no.: A5Q00009875 Line card (collective) FCL2002-A1 0 to 30x 8x collective lines

6a Module bus cards 0 to 37x

Order no.: A5Q00010502 Line card (MS9i) FCL2003-A1 0 to 30x – 2x MS9i lines and max. 100 addresses Order no.: A5Q00010044

Line card (AnalogPLUS) FCL2005-A1 0 to 30x • 1 free slot for an optional second 4x AnalogPLUS lines and max. 126 addresses Order no.: S54400-A107-A1

> Line card (interactive) FCL2006-A1 0 to 30x – 1x interactive line and max. 126 addresses Order no.: S54400-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 0 to 7x Transmission unit for alarms and faults - Max. 1x per card cage (5 slots) FCA2008-A1

I/O card (programmable) FCI2008-A1

- 12x open collector inputs/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

Connection to the extinguishing terminal XCM2003-A2 1x per extinguishing sector

Connection to the next FCA2046 card cage

- 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.: \$54392-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

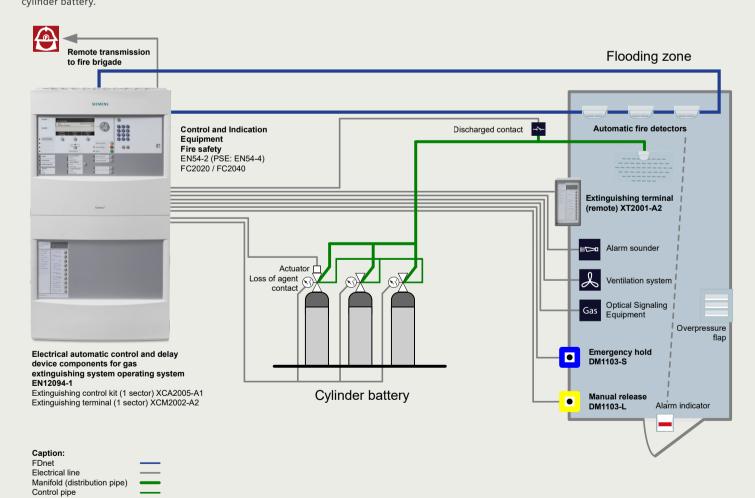
Order no.: S54392-B3-A1 * Number of units to be installed

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

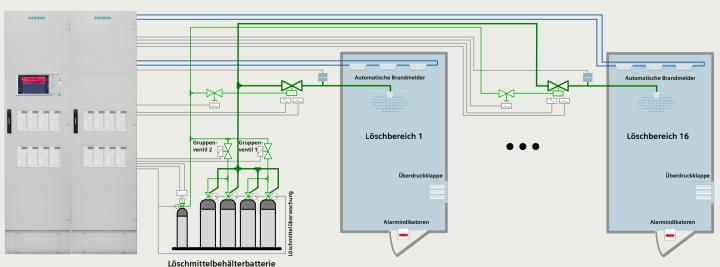
Integrated Extinguishing control planning

Single-sector extinguishing

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

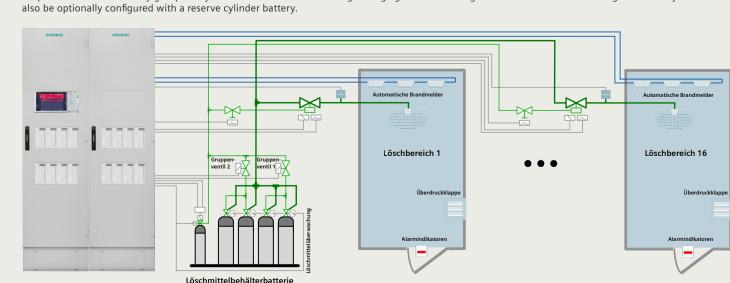


is opened and the necessary groups of cylinders are released. The extinguishing agent flows through the manifolds to the flooding zone. The system can



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



Sinteso Planing Tool Panels, network and accessories

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.: S54400-C33-A6

Max. battery capacity: 2x12 Ah

Order no.: S54400-C33-A3

- Optional: key switch KABA FTO2005

Standard: 430x398x160 mm (WxHxD)

Operating unit

consisting of:

Operating unit

red and one yellow LED

- 70 W power supply

- 70 W power supply

Order no.: S54400-C33-A1

Connect X200/

Connect X300

Gateway

Ethernet

Remote access with

FC2040-GA³

consisting of:

Operating unit

Operating add-on

yellow LED (overall)

150 W power supply

- Optional: event printer FTO2001

Optional: key switch KABA FTO2005

- Optional: 48 or 96 display groups

each with one green/red and one

Large: 430x796x260 mm (WxHxD)

- Max. battery capacity: 2x45 Al

Order no.: \$54400-C35-A8

* (Figure analog to FC2040-AA)

Management platform Remote access to

from Siemens management platform

Simplified drawing without additional network hardware

described in the document "Network Security Guidelines"

Fire control pane

FC2040-AA

consisting of:

Operating unit

Operating add-on

yellow LED (overall)

– 150 W power supply

Order no.: S54400-C35-A1

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

4 FDnet loops with 1.5 A line driver

Networkability via FCnet/SAFEDLINK

Integrated operating unit

Integrated power supply

Automatic configuration

Fire control

panel with

control

extinguishing

Integrated inputs/outputs for peripherals

Doc. ID A6V101039125. Contact your Siemens IT Security

and safety components. Allowed configurations are

Customer

network

Router + Firewall + VPN

• • • • • • • • • • •

Ethernet switch

(modular)

System-wide view

with the fire terminal

FT2040-EZ

Backbone (FCnet/LAN)

Cluster (FCnet/SAFEDLINK)

Fire control panel FC2020 (2-loop)

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

– 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 yellow LED

Comfort: 430x796x160 mm (WxHxD)

- Max. battery capacity: 2x26 Ah

consisting of:

Operating unit

Operating add-on

(overall)

red and one yellow LED

- 150 W power supply

Order no.: \$54400-C33-A7

sounder line output into 4 monitored outputs (2 A)

panel contains:

1 Ethernet connection (RJ45)

Integrated operating unit

Integrated power supply

Automatic configuration

Technical data

FDnet detector lines

4 loops/8 stubs

Inputs and outputs

Integrated inputs/outputs for peripherals

FN2012-A1

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

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

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-- Configurable view of each panel Each panel can be used as a router panel (please)

– Max. number of panels in EN 54 system: – Max. number of panels in a cluster: 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

 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

Characteristics of networking via the system bus

mode; even for systems with more than 512 fire 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 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

FDnet

system-wide view:

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) Kev data - Up to 40 T-taps

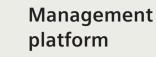
– Max. 252 bus elements per loop - Cable lengths up to 3.3 km with up to 252 bus

Detailed planning information

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

Legend for the interfaces:

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



Fire control pane

FC2040-AE

consisting of:

Operating unit

Operating add-on

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

Separate DC 24 V supply input possible
FT2040: 430 mA

Technical data

• FT2080: 700 mA

DC 24 V system power supply

Fire terminal (touch) FT2080-A1

- Alarm current: 130 mA

consisting of: Operating unit

- 12" color display

- Resolution 1280x800 pixels

Order no.: \$54400-C120-A1

– Standard (FH2002-A1)*

- Desktop (FHA2040-A1)*

* must be ordered separately

- Fire terminal board (FTI2001-A1)*

Back (FHA2039-A1)*

the sounder line output into 4 monitored

12 configurable inputs/outputs 24 V

1 Ethernet connection (RJ45)

– 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

outputs (2 A)

The FT20xx has the following features:

Redundant DC 24 V supply input

Networkability via FCnet/SAFEDLINK

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

- 24 display groups each with one green/

with one green/red and one yellow LED

Description

or Ethernet

consisting of:

Operating unit

(FH2001-G1)

Optional:

consisting of:

Operating unit

Order no.: A5Q00016702

Fire terminal FT2040-EZ

red and one yellow LED

Order no.: A5Q00016720

The building management platform Desigo CC™ is connected via Ethernet. It is either directly connected to the backbone (via Ethernet switch) or via the customer network. In each case the adequate safety measures (e.g. Firewall, VPN etc) have to be used. Web clients and apps for smar phones and tablets provide remote

Network components

Third-party interface

Modbus gateway NK8237.2 ne NK8237 is used as a gateway be-

ween Sinteso and Modbus devices. t provides for bidirectional Modbus access to the management platform. 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 system against unauthorized access and cyber attacks. Order no.: S54461-C7-A1

Fire control panel FC2040-AG consisting of: Operating unit - Optional: event printer FTO2001 Optional: event printer FTO200 Optional: key switch KABA FTO2005 Optional: key switch KABA

- 48 display groups each with one Operating add-on - 96 display groups each with one green/red and one yellow LED green/red and one yellow LED - Optional: 96 display groups each with

In the basic version each FC2040

Monitoring of 2 conventional

one green/red and one yellow LED - Comfort: 430x796x160 mm - Comfort: 430x796x160 mm (WxHxD) - 150 W power supply – 150 W power supply Max. battery capacity: 2x26 Ah – Max. battery capacity: 2x26 Ah Order no.: S54400-C35-A3 Order no.:S54400-C35-A2

----- Fault transmission

Fire control panel

FC2030 (modular)

It has the following features:

Integrated operating unit

Integrated power supply

Automatic configuration

Technical data

- Number of addresses: max. 756

- Number of integrated loops/stubs: 2/4

Optional: extendable up to 12/24 loops/stubs

Optional: sounder module for splitting the sounder

Fire control panel FC2030-AA

- Optional: event printer FTO2001

- Optional: key switch set KABA FTO2005

- Comfort: 430x796x160 mm (WxHxD)

Max. battery capacity: 2x26 Ah

– 150 W power supply

Order no.: S54400-C34-A1

- Optional: 48 or 96 display groups, each with

one green/red and one yellow LED (overall)

consisting of:

Operating unit

FDnet detector lines

Inputs and outputs

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)

The FC2030 is a modular fire control panel.

- 2 slots for additional module bus cards

Integrated inputs/outputs for peripherals

Networkability via FCnet/SAFEDLINK or Ethernet

- 2 FDnet loops with 1.5 A line driver

Description

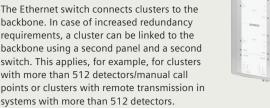
Order no.: S54400-A153-A1

Backbone

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



- 2 slots for optional Ethernet modules (ring). These must be ordered separately: VN2001 Ethernet module (copper/electric)

Ethernet switch (modular) FN2012-A1,

Order no.: S54400-B152-A1

Order no.: \$54400-A42-A1 VN2002 Ethernet module (multi mode). optical Ethernet, max. 4 km Order no.: S54400-A43-A1 • VN2003 Ethernet module (single mode),

optical Ethernet, max. 40 km Order no.: \$54400-A44-A1 - Fault output: relay contact, floating The FN2012-A1 additionally needs the connection module (MoNet) FCA2031-A1

For installation in panels or additional housings, use the following installation kits: - FHA2029-A1 for Eco. Standard, Comfort housings Order no.: \$54400-B79-A1

- FHA2030-A1 for Large, Large Extension housings Order no.: \$54400-B81-A1



inside the panel.

with various digital use-cases. Order no.: S55842-Z131-A100 Accessory kit + ACDC (X200) FCA2056-A1

Fiber-optic converter

and FN2007-A1 (MM)

- FN2006-A1: Single-mode transmission up to 40 km Order no.: \$54400-A109-A1 - FN2007-A1: Multi-mode transmission up to 4 km

on a DIN rail

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

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

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

- 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)

Order no.: \$54400-C36-A1

- Max. battery capacity: 2x45 Ah

- Optional: up to two 150 W additional

Optional: key switch set KABA

consisting of:

FTO2005

Operating add-on

yellow LED (overall)

– 150 W power supply

Operating unit

- 12 configurable inputs/outputs 24 V

Optional: extendable up to 28/56 loops/stubs

Integrated inputs/outputs for peripherals

- 4 FDnet loops with 1.5 A line driver

It has the following features:

Integrated operating unit

Integrated power supply

- Automatic configuration

Technical data

FDnet detector lines

Inputs and outputs

In the basic version each FC2060 control

1 relay output for RT alarm

- 1 relay output for RT fault

- 1 monitored alarm output

1 monitored fault output

- 1 Ethernet connection (RJ45)

or Ethernet

(modular)

Description

he repeater doubles the range between

Fire control panel FC2060

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

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

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

modules FN2006-A1 (SM)

- Two redundant, monitored power feeds EN 54-approved - Earth fault monitoring - Installation in the station or remote Can be installed upright or horizontally

Order no.: \$54400-A110-A1



Thanks to this gateway, the Fire Safety Systems can be connected to the cloud, and therefore be upgraded

Only usable on periphery board

FC2030

FC2040

FC2080

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

(individually addressed) via FDnet,

Max. 8 FT2010/FT2011 per FC2020

Max. 16 FT2010/FT2011 per FC2040

– Max. 50 FT2010/FT2011 per FC2060

additional 24 V supply possible

– 282x207x79 mm (WxHxD)

•••••

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

or Ethernet

Extension and networking options

Line card (collective)

on 8 stubs (MS7/9, MS24,

Order no.: A5000010502

SynoLINE600, FDOOT241-9 A5000010044

FCC2004-A1

CPU operation.

S54400-A18-A1

FCL2002-A1

FCL2003-A1

Siemens standard detectors able lines (max. 100 For 4 addressable

For 2 MS9i address-

FCA2001-A1

This module is

an event printer. It

in the set for the

A5Q0000532

(AnalogPLUS)

AnalogPLUS lines

S54400-A107-A1

(max. 126 addresses

RS485 module (isolated)

ating the following modules:

(FAT and FBF) [DE & CZ]

The RS485 module (isolated) is

plugged into the PMI mainboard.

- Fire brigade display panel with

integrated fire brigade operating

This is needed, for example, for oper-

Fire brigade display panel (FAT) [DE]

FCA2002-A1

UGA 20 [FR]

FCL2006-A1

For 1 addressable

S54400-A108-A1

(max. 126 addresses)

interactive line

Order no.:

FCL2005-A1

Line card (FDnet)

FCL2008-A1

For 252 FDnet

devices on max.

4 loops or 8 stubs

Network module (SAFEDLINK)

With this module, the station can be

networked via the cluster. For this

network module. In case of additional

requirements in terms of the degrade

mode function, 2 network modules car

Networked panels with more than

Networked panel with connection to

remote transmission and with more

purpose it is necessary to install a

be installed.

For example for

512 FDnet devices

than 512 FDnet devices

Order no.: A5Q00012851

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

(interactive Ex)

For 1 addressable

S54400-A134-A1

it possible to double the

number of loops (e.g. from

2 loops to 4 loops or from

4 loops to 8 loops) while

periphery board (e.g.

number of addresses on the The sounder mod-

2 loops with 126 addresses the assembly plate

each or 4 loops with 63 ad- FHA2007-A1.

ule is screwed to

interactive Ex line

(max. 32 addresses).

FCL2007-A1

FCI2007-A1

For alarm and fault

FCI2008-A1

12 programmable

in degrade mode.

S54400-A6-A1

has connections for 4 - Module for one extinguishing sector

- 6 driver outputs

Order no.: \$54392-A7-A1

Order no.: \$54392-B8-A

Card cage (1 sector exting.)

(actuators, alarm and peripheral device

Card holder for one extinguishing card

Connection for remote terminal

inputs/outputs with

FCI2009-A1

8 monitored

Order no.:

sounder lines or

S54400-A21-A1

monitored output

Housings

BACnet 3rd-party provider



supervision and extended commands)

(activation and deactivation commands

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

(overall)

Order no.: A5Q00009906

with one green/red and one yellow LED



Housing for larger batteries - Max. battery capacity: 2x65 Ah – 430x796x260 mm (WxHxD) Optional: power supply kit (70 W) FP2003-A1 or

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

- Optional: 48 or 96 display groups each

FP2004-A1 and additional power

supply (150 W) FP2005-A1

- 430x398x260 mm (WxHxD)

Optional: power supply kit (150 W) FP2004-A1 and additional power supply (150 W) FP2005-A1 Optional: event printer FTO2001-A1

Order no.: A5Q00018778

Housing (Large) FH2005-A1

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 19" frame; 430x100x324 mm (WxHxD) Order no.: A5Q00020179

Power supply



FP120-Z1 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.: \$54400-B121-A1

Power supply kit A (70 W)



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

is possible.

Power supply kit (150 W)

Additional power supply (150 W)

Order no.: A5Q00020825



FP2005-A1 Additional power supply can be connected

in the housing directly after FP2004-A1. Order no.: A5Q00018779

Operating add-ons

XCM2002-A2 Consisting of: - 1 extinguishing terminal

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

Extinguishing terminal (1 sector)



remote panel

S54392-F2-A1

XCM2003-A2 For FC2080 only. Consisting of:

Fire control panel FC2020/2040-AA

with extinguishing control

- 2-loop panel FC2020-AA

Order no.: S54400-C33-A6

- 4-loop panel FC2040-AA

Order no.: S54400-C35-A1

Order no.: \$54392-B3-A1

Extinguishing terminal (1 sector)

Extinguishing control kit (1 sector)

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

Extinguishing card XCI2005-A1

Card cage connection FCA2006

Accessory kit FCA2047-A1

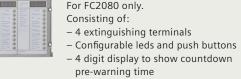
Order no.: \$54392-\$20-A1

consisting of:

XCM2002-A2

XCA2005-A1

Fire control panel



Extinguishing terminal (4 sectors)



Operating add-on (2xLED incl.) FCM2038-A2 is contains 48 display groups each with one Optional: event printer FTO2001-A1



Operating add-on (4xLED incl.) FCM2036-A2 nis contains 96 display groups each with one green/red and one yellow LED. Any events can be almm (WxHxD).



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

Key switch Kaba FTO2005-C1

Extinguishing key switch Kaba

sories. Optionally applicable for operation clearance. Order no.: A5Q00010129

Key switch Nordic FTO2006-B1

Key set with mounting acces

Floor repeater terminal

Order no.: A5Q00014104



Event printer FTO2001-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 in the printer set and must be ordered separately. Order no : A5000010126



Event printer DL3750+ Monitored external event printer for serial connection or via Ethernet Optional: RS232 module (isolated) FCA2001-A1 Order no.: A5Q00023962

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Backbone (FCnet/LAN) Cluster (FCnet/SAFEDLINK) Network to connect panels

Order no.: \$54392-B4-A1



reen/red and one yellow LED. Any events can be allocated to the LEDs: 427x200x25 mm (WxHxD). Order no.: S54400-B146-A1



ocated to the LEDs; 427x200x25 Order no.: S54400-B147-A1

XTO2002-C1 Order no.: \$54392-B12-A1

Extinguishing key switch Nordic XTO2003-B1 Order no.: \$54392-B11-A1

for operating the event printer. This is not contained