# SIEMENS

Fire detection system

FS20

Modular, networkable fire detection system for detection, evaluation, sounding an alarm, and extinguishing in the event of a fire.

- Control panel range with 7 types of station
- Networking via FCnet/SAFEDLINK
- Extended networks via FCnet/LAN backbone
- Powerful peripherals
- Optional, integrated extinguishing control
- Time-saving functions for mounting, commissioning, and service
- Optimum use of customer resources
- High availability
- Easy handling
- High speed

System overview

ℹ️ The diagrams have been simplified and do not include additional network hardware or security components. Permissible applications are described in the A6V101039125 Network Security Guidelines document. Contact your Siemens IT security expert for more information.
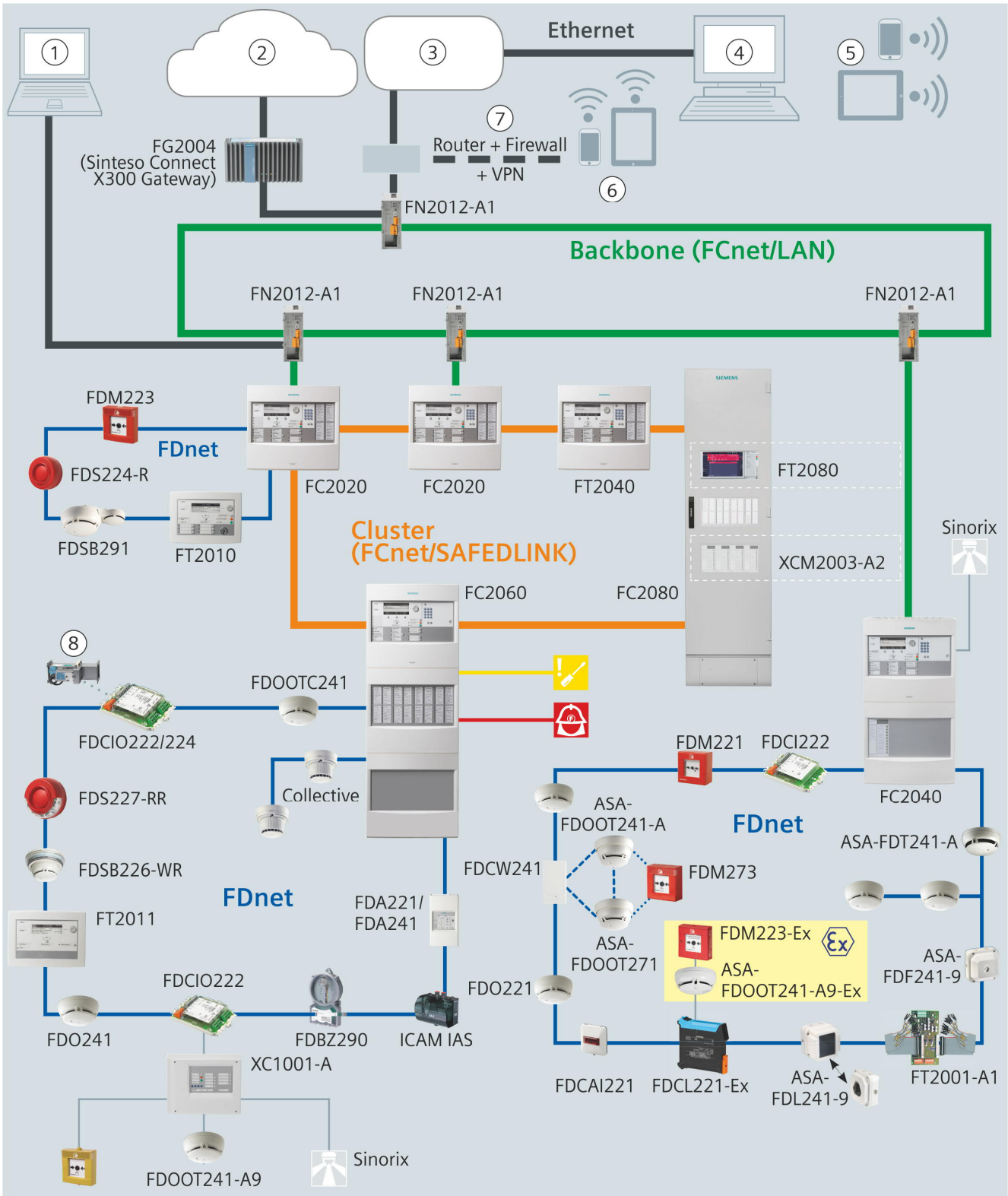
System overview

1	Remote access with SintesoView/ Sinteso Touch
2	FS cloud applications
3	Customer network
4	Management platform
5	Remote access to management platform
6	Remote access with Sinteso Mobile
7	Router + Firewall + Virtual Private Network
8	Fire damper with actuator
![fault symbol]	Transmission of a fault signal
![alarm symbol]	Transmission of an alarm signal

You will find a detailed labeled version of the diagram above along with further information in the A6V10906627 planning guide, see chapter 'Product documentation'.

The FS20 fire detection system represents the latest generation of global fire control panels from Siemens. The system combines the highest standards of safety with international product innovations and state-of-the-art technology.

The fire control panels, the fire terminals, the joint FCnet/SAFEDLINK network, and the FCnet/LAN backbone have all been designed in accordance with EN 54-2, EN 54-4, and requirements that are applicable in Switzerland. When used in conjunction with Sinteso™ peripheral devices on the FDnet detector line, the system offers maximum detection reliability and can adapt perfectly to the conditions at the customer's site.

Features and Functions

- Control panel range with 7 types of station
  - Microprocessor-controlled fire detection system
  - Compact and modular fire control panels for between 252 and 5000 addresses
  - PC-based operation via Fast Ethernet with SintesoView
  - Integrated BACnet interface
  - Free control logic
  - Phased evacuation
- FCnet/SAFEDLINK networking
  - Redundant networking
  - Increased safety (degraded mode)
  - Fast data transfer of up to 315 kbit/s
  - Maximum of 32 stations
- Extended networks via FCnet/LAN backbone
  - Heterogeneous networks via fiber-optic-based Industrial Ethernet
  - EN 54-compliant
  - Redundant data transmission
  - Up to 14 sub-nets with up to 16 stations per sub-net
  - Up to 64 stations in the entire network
  - Up to 32000 addresses
- Powerful peripherals
  - Acoustic alarm sounders, floor repeater displays/terminals supplied via bus
  - All FD20 devices are supported
- Time-saving functions for mounting, commissioning, and service
  - Ergonomic planning and configuration software 'SintesoWorks' featuring familiar Windows mechanisms
  - Auto-configuration with self-addressing
  - Zones and customer texts can be assigned without hardware read-in
  - Remote transmission of diagnosis data, such as firmware versions

Optimum use of customer resources

- Individual control panels or an entire network can be operated from a customer PC using the 'SintesoView' visualization software
- Redundancy cabling replaced by fail-safe network nodes
- Floor repeater display and terminals operated on the FDnet detector line

High availability

- Remote access via GAP or cRSP
- Efficient troubleshooting thanks to remote transmission of diagnosis data
- Maximum reliability and secure detection
- Auto-configuration for primary site protection

Easy handling

- Easy and time-saving operation thanks to user-friendly and self-explanatory menu structure
- Efficient mounting, commissioning, and configuration thanks to pre-assembled control panels
- All system devices can be accessed remotely via a network device
- Download of the topology, consisting of periphery and installation, in the Engineering Tool
- Minimal training overheads thanks to an integrated operating and hardware concept and the 'SintesoWorks' Engineering Tool for the entire system

High speed

- Data transmission rate of 315 kbit/s in fail-safe sub-net and 100 Mbit/s in a backbone Ethernet network
- Short download and upload times
- Logical configuration data created prior to site installation

General functional principle

The FD20 fire detectors identify fire phenomena, compare and evaluate them on the basis of stored patterns, and then transmit a signal to the fire control panel if they detect a fire. The fire control panel evaluates these signals and triggers individually configured fire controls, evac. controls, and, if available, integrated extinguishing controls.

In the event of faults, degraded mode safeguards the operation of those parts of the system that are detrimentally affected by the fault. All signals transmitted to the fire control panel or sent by the fire control panel are automatically displayed on the Person Machine Interface of the fire control panel according to where they originate and can be dealt with by means of operating functions.

The fire control panel saves all messages in the event memory together with a time stamp so that the source of the fire can be determined at a later point.

FS20 is a modular, networkable fire detection system for detection, evaluation, and sounding an alarm in the event of a fire.

Due to its high flexibility and interconnectivity, the application spectrum of the FS20 fire detection system ranges from small hotels, restaurants, and workshops to extremely large applications with special requirements for availability and redundancy, such as airports, shopping malls, and large industrial plants.

The option to seamlessly integrate an automated extinguishing system into the fire detection system completes the application spectrum.

Networking

Networking of fire control panels

> ℹ The diagrams have been simplified and do not include additional network hardware or security components. Permissible applications are described in the A6V101039125 Network Security Guidelines document. Contact your Siemens IT security expert for more information.

Up to 32 control panels and terminals can be linked to form one FCnet network. If the FCnet network is connected to a danger management system via BACnet, up to 16 control panels and terminals can be networked.
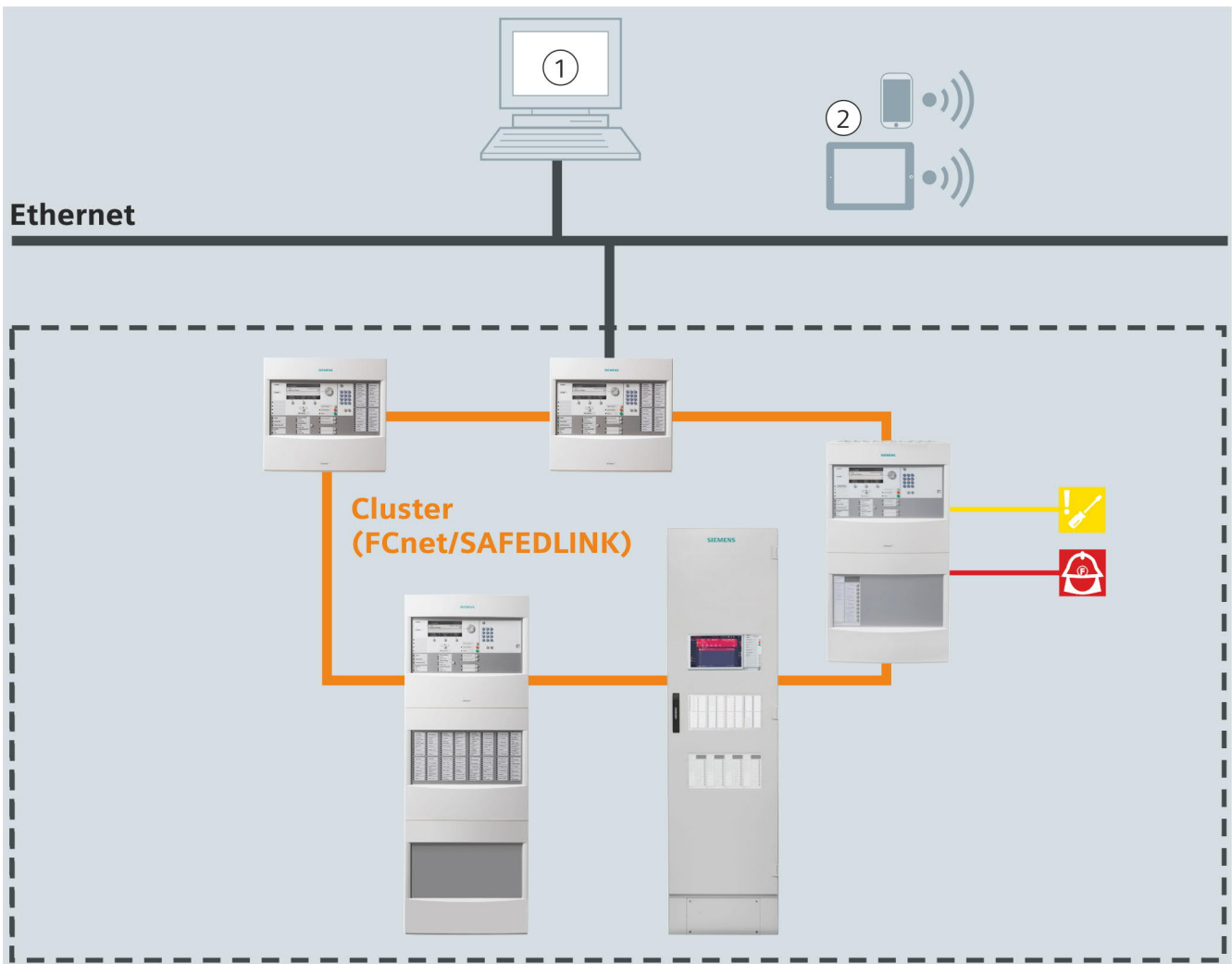
Sub-net

1	Management platform
2	Remote access to management platform
	Transmission of a fault signal
	Transmission of an alarm signal

An optical FCnet/LAN network allows up to 14 sub-nets with up to 16 stations to be operated in one network. A maximum of 64 stations is supported in total.
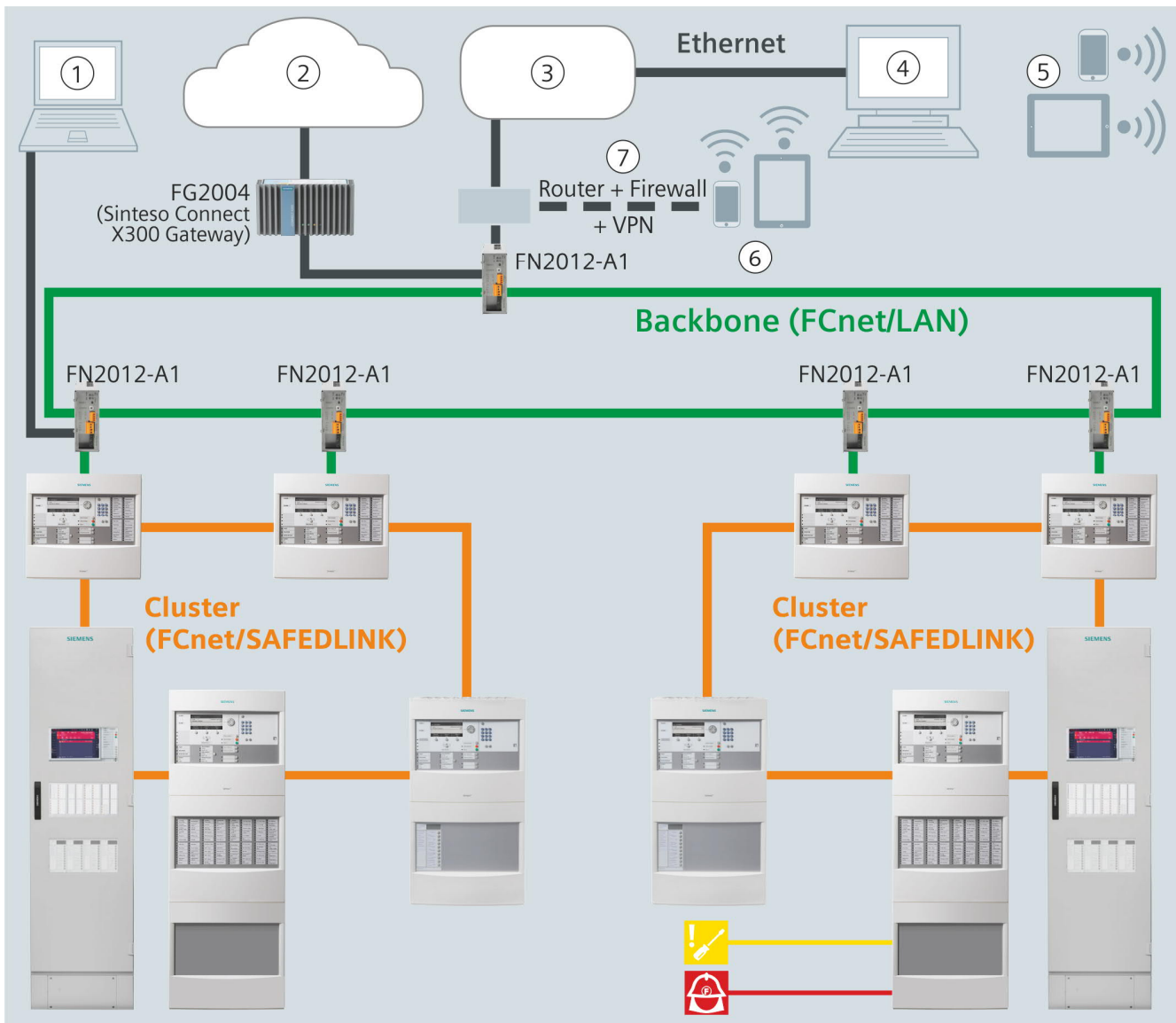
Backbone

1	Remote access with SintesoView/ Sinteso Touch
2	FS cloud applications
3	Customer network
4	Management platform
5	Remote access to management platform
6	Remote access with Sinteso Mobile
7	Router + Firewall + Virtual Private Network
⚠	Transmission of a fault signal
🔔	Transmission of an alarm signal

You will find a detailed labeled version of the diagram above along with further information in the A6V10906627 planning guide, see chapter 'Product documentation'.

Cross-station features and functions

- Fast Ethernet interface for a heterogeneous network
- Processes signals from Sinteso as well as from earlier detector series
- Siemens danger management system can be connected
- Slots for RS232 and RS485 serial interfaces
- Floor repeater devices, alarm devices, and mimic displays on the FDnet detector line
- All detector lines are monitored for ground faults.
- Integrated degraded mode function
- Freely configurable, time-dependent controls with optional weekly switching programs
- Time and situation-dependent changeover of detector parameter sets
- Controls for synchronous activation of sounders / sounder bases with signal sound, flash, and voice output
- The control panel and the fire detection system are custom-configured using the 'SintesoWorks' software
- Firmware for all processor-controlled control panel components can be updated
- Customer texts can be adapted directly on the operating unit of the control panel or with the 'SintesoWorks' software
- Up to 13000 events can be called up from the event memory and filtered based on various criteria
- Automatic summer/normal time changeover

FC2020

i	You will find information on the integrated extinguishing system and the individual extinguishing components that are available in a separate data sheet with the document ID 'A6V11480005'.

FC2020-AZ	Housing (Standard)
	Detector line (FDnet) - 252 addresses - 2 loops/4 stubs Properties - Operating unit - 70 W power supply - Max. battery capacity 12 Ah Options of the operating unit - Event printer FTO2001-A1 - Key switch (Kaba) FTO2005-C1 - Key switch (nordic) FTO2006-B1

FC2020-EZ	Housing (Standard)
	Detector line (FDnet) • 252 addresses • 2 loops/4 stubs Properties • Operating unit with LED module • 70 W power supply • Max. battery capacity 12 Ah Options of the operating unit • Key switch (Kaba) FTO2005-C1 • Key switch (nordic) FTO2006-B1

FC2020-AA	Housing (Comfort)
	Detector line (FDnet) • 252 addresses • 2 loops/4 stubs Properties • Operating unit • Operating add-on (empty) • 150 W power supply • Max. battery capacity 25 Ah • 1 flooding zone (optional) Options of the operating unit • Event printer FTO2001-A1 • Key switch (Kaba) FTO2005-C1 • Key switch (nordic) FTO2006-B1 • Operating add-on (2xLED indicator) FCM2038-A2 • Operating add-on (4xLED indicator) FCM2036-A2 • Exting. terminal (1 sector) XCM2002-A2 • Exting. terminal (4 sectors) XCM2003-A2

FC2020-AE	Housing (Comfort)
	Detector line (FDnet) • 252 addresses • 2 loops/4 stubs Properties • Operating unit • Operating add-on (2xLED indicator) • 150 W power supply • Max. battery capacity 25 Ah Options of the operating unit • Event printer FTO2001-A1 • Key switch (Kaba) FTO2005-C1 • Key switch (nordic) FTO2006-B1

FC2030-AA	Housing (Comfort)
	FDnet detector line: • 756 addresses • 2 loops/4 stubs • Can be extended with 2 module bus cards Installable module bus cards (option): • Line card (FDnet/C-NET) FCL2001-A1 • Line card (collective) FCL2002-A1 • Line card (MS9i) FCL2003-A1 • Line card (AnalogPLUS) FCL2005-A1 • Line card (interactive) FCL2006-A1 • Line card (interactive Ex) FCL2007-A1 • I/O card (programmable) FCI2008-A1 • I/O card (horn/monitored) FCI2009A1 • I/O card (remote transmission) FCI2007-A1 Features: • Operating unit • Operating add-on (empty) • Card cage (2 slots) • 150 W power supply • Max. battery capacity 25 Ah Operating unit options: • Event printer FTO2001-A1 • Key switch (Kaba) FTO2005-C1 • Key switch (nordic) FTO2006-B1 • Operating add-on (2xLED indicator) FCM2038-A2 • Operating add-on (4xLED indicator) FCM2036-A2

ⓘ | You will find information on the integrated extinguishing system and the individual extinguishing components that are available in a separate data sheet with the document ID 'A6V11480005'.

FC2040-AA	Housing (Comfort)
	FDnet detector line: • 504 addresses • 4 loops/8 stubs Features: • Operating unit • Operating add-on (empty) • 150 W power supply • Max. battery capacity 25 Ah • 1 flooding zone (optional) Operating unit options: • Event printer FTO2001-A1 • Key switch (Kaba) FTO2005-C1 • Key switch (nordic) FTO2006-B1 • Operating add-on (2xLED indicator) FCM2038-A2 • Operating add-on (4xLED indicator) FCM2036-A2 • Exting. terminal (1 sector) XCM2002-A2

FC2040-AE	Housing (Comfort)
	FDnet detector line: • 504 addresses • 4 loops/8 stubs Features: • Operating unit • Operating add-on (2xLED indicator) • 150 W power supply • Max. battery capacity 25 Ah Operating unit options: • Event printer FTO2001-A1 • Key switch (Kaba) FTO2005-C1 • Key switch (nordic) FTO2006-B1

FC2040-AG	Housing (Comfort)
	Detector line (FDnet) • 504 addresses • 4 loops/8 stubs Properties • Operating unit • Operating add-on (4xLED indicator) • 150 W power supply • Max. battery capacity 25 Ah Options of the operating unit • Event printer FTO2001-A1 • Key switch (Kaba) FTO2005-C1 • Key switch (nordic) FTO2006-B1

FC2040-GA	Housing (Large)
	Detector line (FDnet) • 504 addresses • 4 loops/8 stubs Properties • Operating unit • 150 W power supply • Max. battery capacity 45 Ah • 1 flooding zone (optional) Options of the operating unit • Event printer FTO2001-A1 • Operating add-on (2xLED indicator) FCM2038-A2 • Operating add-on (4xLED indicator) FCM2036-A2 • Exting. terminal (1 sector) XCM2002-A2

FC2060-AA	Housing (Large)
	FDnet detector line: • Max. 1512 addresses • 4 loops/8 stubs • Can be extended up to 28 loops/56 stubs Extra module bus cards (option): • Line card (FDnet/C-NET) FCL2001-A1 • Line card (collective) FCL2002-A1 • Line card (MS9i) FCL2003-A1 • Line card (AnalogPLUS) FCL2005-A1 • Line card (interactive) FCL2006-A1 • Line card (interactive Ex) FCL2007-A1 • I/O card (programmable) FCI2008-A1 • I/O card (horn/monitored) FCI2009A1 • I/O card (remote transmission) FCI2007-A1 Features: • Operating unit • Operating add-on (empty) • Card cage (5 slots) • 150 W power supply • Max. battery capacity 45 Ah Operating unit options: • Event printer FTO2001-A1 • Key switch (Kaba) FTO2005-C1 • Key switch (nordic) FTO2006-B1 • Operating add-on (2xLED indicator) FCM2038-A2 • Operating add-on (4xLED indicator) FCM2036-A2

- System with multiple redundancy
- Optionally available with redundant main processor
- Automatic recognition and addressing of module bus cards
- Turbo isolation in the event of a short-circuit to ensure uninterrupted availability of FD20 devices
- Processes signals from Sinteso as well as from earlier detector series
- Siemens danger management system can be connected
- Supplied with the following pre-fitted interfaces:
  - 2x integrated FCnet interfaces
  - 1x separate Ethernet connection on CPU card for SintesoWorks
  - 4x Ethernet connections on a communication card, one of which features ground fault monitoring
  - Integrated RS485 and RS232 serial interface
- Floor repeater terminals, alarm devices, and mimic displays supplied with power via detector line (FDnet)
- Modular energy supply concept that relies on a maximum of two power supply modules with up to three 150 W power supplies; card cages can be connected to power supply modules however you like
- Separate batteries for each power supply module
- Control and operation via other control panels on the network
- An operating unit with up to two operating add-ons can be optionally installed; operated as a separate fire terminal

FH2080-AA	Housing (19" pedestal cabinet)
	5000 addresses 30...240 lines (depending on line card and configuration) - Max. 2 power supply units at 300 W; can be extended to 450 W - Max. battery capacity 100 Ah per power supply unit - Max. 7 card cages for module bus cards - Max. 5 module bus cards per card cage - Max. 37 module bus cards - Max. 8 flooding zones; max. 16 flooding zones with additional 19" pedestal cabinet

Features of the basic components

FCC2002-A1	Processor unit (19", FC2080)
	• Basic component for the FC2080 • Already pre-mounted in the housing (19", pedestal cabinet) FH2080-AA • Incl. cable kit for connecting an optional operating unit • Includes 19" carrier with cable duct, a card cage (CPU), and a card cage (5 slots) • Incl. a CPU card (FC2080) and communication card (FC2080) • One slot in the card cage (CPU) is reserved for a redundant CPU card (FC2080) • Two slots in the card cage (CPU) are reserved for module bus cards

FHA2022-A1	Carrier (19", power supply)

	• Basic component for the fire control panel FC2080
	• Guarantees the required energy supply.
	• Mounted on the side wall of the 19" pedestal housing FH2080-AA.
	• Installation of a second power supply unit with separate battery kit possible
	• Consists of the following elements:
	  – One carrier plate with DIN rails and cable ducts
	  – 2 power supplies (150 W), connected in parallel for 300 W
	  – One terminal strip for the primary supply
	  – One terminal strip for the secondary supply
	  – One free position for a third power supply that can be connected in parallel (150 W)

- Person Machine Interface that is used remotely from the control panel, which can be optionally provided with its own power supply
- Up to five fire terminals can be configured with system-wide visibility.
- The fire terminal has spaces for installing optional interfaces such as an RS232 or RS485, network modules (SAFEDLINK), and a key switch.
- Each fire terminal has an Ethernet connection.
- The powerful FCnet can be used to network up to 64 fire control panels FC20xx and fire terminals with one another in any way.
- Siemens danger management system can be connected

FT2040-AZ	Housing (Eco)
	FDnet detector line: • None Features: • Operating unit Station options: • 70 W power supply • 2 batteries, each 7 Ah Operating unit options: • Event printer FTO2001-A1 • Key switch (Kaba) FTO2005-C1 • Key switch (nordic) FTO2006-B1

FT2040-EZ	Housing (Eco)
	FDnet detector line: • None Features: • Operating unit (+LED indicator) Station options: • 70 W power supply • 2 batteries, each 7 Ah Operating unit options: • Key switch (Kaba) FTO2005-C1 • Key switch (nordic) FTO2006-B1

FT2080

FT2080-A1	Fire terminal (Touch)
	Detector line (FDnet): • None Features: • 12" screen (Touch) EN 54-2-compliant Extra components • Fire terminal board FTI2001 Can be installed in: • 19" pedestal cabinet with FC2080 • Housing (Eco) FH2001-A1 • Rear cover (FT2080) FHA2039-A1 • Desktop housing (FT2080) FHA2040-A1 • Third-party housing with rear cover (FT2080) FHA2039-A1

National extensions

Extension	Country / region
Control panel for fire controls	• France
Evacuation operating panels	• France • Netherlands
Fire brigade operating panels	• Switzerland • Germany • Scandinavia
Fire brigade periphery	• Switzerland • Germany • Netherlands

FC2020

This fire control panel is ideal for smaller applications, e.g., for use in workshops or hotels.

Thanks to the flexible networking options, the Station can also be used for large-scale sites.

FC2030

This fire control panel is ideal for medium-sized applications, e.g., for use in industrial plants, regional banks, or office complexes.

Within the context of modernization, the Station allows a gradual and seamless transition from older systems to Sinteso.

FC2040

This fire control panel is ideal for medium-sized applications, e.g., for use in industrial plants, regional banks, or office complexes.

Thanks to the flexible networking options, the Station can also be used for large-scale sites.

FC2060

This fire control panel is ideal for large applications, e.g., for use in industrial plants, office complexes, or production halls.

Within the context of modernization, the Station allows a gradual and seamless transition from older systems to Sinteso.

FC2080

This fire control panel is ideal for large applications with high redundancy requirements, such as airports, power generation facilities, and systems with extinguishing systems.

Within the context of modernization, the Station allows a gradual and seamless transition from older systems to Sinteso.

FT2040 / FT2080

The fire terminal is designed for remote operation of a fire detection system, e.g., on one floor.

Application matrix

Use	FC2020	FC2030	FC2040	FC2060	FC2080	FT2040	FT2080
Smaller applications, such as workshops or hotels	●	○	●	○	○	–	–
Medium-sized applications, such as medium-sized industrial plants, regional banks, or medium-sized office blocks	○	●	●	○	○	–	–
Large applications, such as industrial plants, large office blocks, or production halls	○	○	○	●	●	–	–
Large applications with high redundancy requirements, such as airports, power generation facilities, and shopping malls	–	–	–	○	●	–	–
Integrable extinguishing	●	–	●	–	●	–	–
Modernization of existing fire detection installations	–	●	–	●	●	–	–
Scalability due to networking	●	●	●	●	●	●	●
Remote operation of an existing fire detection system	–	–	–	–	–	●	●

●   Preferred application

○   Conditionally possible application

–   Application not possible or not recommended

Fire control panels

You will find detailed information on the available control panel types and the available variants in the separate data sheet for the respective control panel type and in the system documentation. You will find information on the document ID of the documents in section 'Product documentation [➜ 28]'.

	FC2020	FC2030	FC2040	FC2060	FC2080
Housing type	Standard/ Comfort	Comfort	Comfort/Large	Large	19" pedestal housing
Supply					
Power supply	70 W/150 W	150 W	150 W	150 W	Max. 2x 450 W
Max. battery capacity (2x12 V)	12 Ah/25 Ah	25 Ah	25 Ah/45 Ah	45 Ah	2x 100 Ah
Interfaces					
Slots for module bus cards	–	2	–	5	37
Ethernet port RJ45	1	1	1	1	3
Inputs / outputs					
Number of integrated FDnet lines:					
• Loops (with loop extension) or	2/4	2/4	4/8	4/8	–
• Stubs (with loop extension)	4/8	4/8	8/16	8/16	–
Number of FDnet lines in addition to line cards:					
• Loops/stubs	–	2x 4/8	–	5x 4/8	30x 4/8
Number of FDnet addresses	252	756	504	1512	5000

	FC2020	FC2030	FC2040	FC2060	FC2080
Integrated outputs for alarm and control:					
• RT alarm relay	1	1	1	1	
• RT fault relay	1	1	1	1	
• Monitored alarm output	1	1	1	1	–
• Monitored fault output	1	1	1	1	
Horn output, monitored (with sounder module)	1/4	1/8	2/8	2/8	–
Configurable inputs/outputs 24 V	8	8	12	12	–
Dimensions					
With cover cap/door	430 x 398 x 160 mm	430 x 796 x 183 mm	430 x 796 x 160 mm	430 x 796 x 260 mm	600 x 2200 x 615 mm incl. base
Without cover cap	430 x 398 x 188 mm	430 x 796 x 160 mm	430 x 796 x 188 mm	430 x 796 x 288 mm	–
Degraded mode and emergency supply	Yes				
Emergency power supply	Emergency operation in degraded mode for up to 72 h (depending on configuration)				
Organizational logic	The alarm verification concept (AVC) allows the control panels to be organized in accordance with customer requirements.				
Time functions	Freely configurable, time-dependent controls with optional weekly switching programs. In the event of site testing or if detector zones are isolated, timeout functions ensure that these detector zones get reactivated.				
Event memory	Up to 13000 events can be called up for each station based on various criteria.				
Ground fault monitoring	All the outgoing detector lines running out from the control panels are monitored for ground faults.				

> ℹ️ You will find detailed information on the available terminal types and the available variants in the separate data sheet for the respective terminal type and in the system documentation. You will find information on the document ID of the documents in section 'Product documentation [→ 28]'.

	FT2040	FT2080
Housing type	Eco	Optional
Supply		
Battery capacity	2x 12 V, 7 Ah (optional)	–
Power supply	DC 20…30 V	DC 20…30 V
Power supply	External or FP2015	External
Interfaces		
Slots for serial modules	2	2
Slot for network modules (SAFEDLINK)	2	2
Ethernet port RJ45	1	1
Dimensions		
With cover cap	430 x 398 x 80 mm	–
Without cover cap	430 x 398 x 108 mm	–
Without housing	–	427 x 200 x 25 mm
Degraded mode and emergency supply	Via external supply or with power supply and batteries option	Via external supply
Emergency power supply	Emergency operation in degraded mode for up to 72 h (depending on supply)	
Organizational logic	The alarm verification concept (AVC) allows the control panels to be organized in accordance with customer requirements.	
Time functions	Freely configurable, time-dependent controls with optional weekly switching programs. In the event of site testing or if detector zones are isolated, timeout functions ensure that these detector zones get reactivated.	
Event memory	Up to 13000 events can be called up for each station based on various criteria.	
Ground fault monitoring	All the outgoing detector lines running out from the control panels are monitored for ground faults.	

Accessories

You will find information on accessories and possible extensions in the separate data sheet for the respective control panel or terminal type and in the system documentation. You will find information on the document ID of the documents in section 'Product documentation [➜ 28]'.

Device combinations

Hardware extensions

ℹ️ You will find detailed information on the hardware extensions and compatibilities in the separate data sheet for the respective control panel or terminal type and in the system documentation. You will find information on the document ID of the documents in section 'Product documentation [➜ 28]'.

Hardware extension	FC2020	FC2030	FC2040	FC2060	FC2080	FT2040	FT2080
Network module (SAFEDLINK) FN2001-A1	●	●	●	●	Inte-grated	●	●
Repeater (SAFEDLINK) FN2002-A1	●	●	●	●	●	●	●
Loop extension (FDnet) FCI2003-A1	●	●	●	●	–	–	–
Line card (FDnet) FCL2001-A1	–	●	–	●	●	–	–
Line card (collective) FCL2002-A1	–	●	–	●	●	–	–
Line card (MS9i) FCL2003-A1	–	●	–	●	●	–	–
Line card (AnalogPLUS) FCL2005-A1	–	●	–	●	●	–	–
Line card (interactive) FCL2006-A1	–	●	–	●	●	–	–
Line card (interactive, Ex) FCL2007-A1	–	●	–	●	●	–	–
I/O card (remote transmission) FCI2007-A1	–	●	–	●	●	–	–
I/O card (programmable) FCI2008-A1	–	●	–	●	●	–	–
I/O card (horn, monitored) FCI2009-A1	–	●	–	●	●	–	–
Sounder module FCA2005-A1	●	●	●	●	●	–	–
RS232 module (isolated) FCA2001-A1	●	●	●	●	Inte-grated	●	●
RS485 module (isolated) FCA2002-A1	●	●	●	●	Inte-grated	●	●
Fire brigade periphery module (DE) FCI2001-D1	●	●	●	●	●	–	–
Extinguishing card XCI2005-A1[1]	●	–	●	–	●	–	–
CPU card FCC2004-A1	–	–	–	–	●	–	–
Event printer FTO2001-A1	●	●	●	●	–	●	–
Event printer DL3750+	●	●	●	●	–	●	–
LED indicators	●	●	●	●	●[2]	●	–

●   Extension possible

–   Extension not possible

[1] Installation is only possible if there is sufficient space in the housing.

[2] As an operating add-on in conjunction with an optional operating unit.

Fire detector

- Fire detectors with the latest generation of evaluation algorithms.
- Signals are processed using **ASA**_technology_™.
- Time-dependent and process-dependent detection behavior.
- Maximum detection reliability thanks to unique detector properties.

Radio fire detection system

- Radio fire detection system with full integration into FDnet
- Wireless coupling with mesh technology
- Costly or visible cable installations are not required, which makes the radio fire detection system particularly useful for museums and churches
- Installation can be carried out without interrupting operation.
- Radio gateway FDCW241 communicates with up to 30 radio detectors (smoke detectors and manual call points), with up to 16 overlapping radio cells supported at each point.

Aspirating smoke detector

- This aspirating smoke detector is designed to detect smoke at a very early stage and is intended for protecting small areas that are classed as operationally critical.
- The detector continually sucks in air samples through extraction openings in a network of pipes.
- The air is supplied to a detection chamber where the presence of the smallest smoke particles can be detected using dual-wavelength technology or laser light.

FDA221, FDA241

Sounders and sounder bases (sounders, sounder beacons, voice sounders)

- Operation of the sounders and sounder bases on the FDnet detector line.
- Supply and communication via FDnet
- No costly additional cabling required
- Meets the requirements of the EN 54-3 standard
- Max. 16 tones to choose from, 2 programmable events: 'Warning (ALERT)' and 'Evacuation (EVAC)'*
- Optional: integrated beacon*; meets the requirements of the EN 54-23 standard
- Optional: additional voice output*:
  – 15 languages integrated in the device, additional languages can be ordered
  – Each voice message can be emitted in two languages
  – Max. seven available events
 – Customer-specific voice messages and/or tones can be ordered

* Only possible for certain types of sounders and sounder bases.

Input and output modules

- Statuses can be monitored using an input module, e.g., door monitors, fan controls, or for the activation of sprinkler alarms.
- Input/output modules are used for the decentralized controls of fire safety doors, fans, and similar applications.
- The inputs can be used for confirmation purposes, for monitoring statuses, or for controlling the standard extinguishing interface (SST) in accordance with VdS.
- The transponder has two inputs/outputs that can be configured for the following applications:
  - Connection of collective limit value detectors
  - Monitored control of alarm devices

Line separator
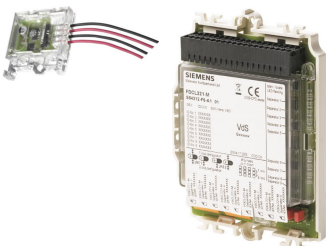
- A line separator ensures that multiple stub lines do not fail in the event of a short-circuit.
- The line separator is installed between two stubs on the FDnet if there are no other Sinteso line devices between the stubs which can perform a line separation function.

Mimic display driver
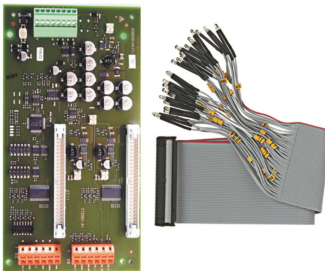
- The mimic display driver FT2001-A1 has 2x 24 outputs for controlling mimic display LEDs.
- Operation on the FDnet detector line
- Two control outputs for 'Local buzzer' and 'LED operation'
- Two inputs for 'Silence buzzer' and 'LED test'
- The LEDs are connected via a ribbon cable.

Floor repeater terminal and floor repeater display

- The floor repeater terminal FT2010 and the floor repeater display FT2011 are operated directly on the FDnet detector line.
- The floor repeater display FT2011 displays messages and events from selected areas of the fire detection system.
- The floor repeater terminal FT2010 displays messages and events from selected areas of the fire detection system and also enables operation.
- The responsible customer personnel (e.g., ward nurses) have access to a clear and well laid-out user interface. This displays customer-specific plain text messages to enable pinpointing of events.
- The display is of the same type as fire terminal FT2040.

Details for ordering

You will find ordering information in the separate data sheet of the respective control panel or terminal type and in the system documentation. You will find information on the document ID of the documents in section 'Product documentation [➜ 28]'.

Product documentation

Title	Document ID
System documentation	
System description	008836
Product data	008837
Planning	008843
Mounting/Installation	008851
Data sheets	
FC2020 - fire control panel	009383
FC2030 - fire control panel for modernization	A6V10087532
FC2040 - fire control panel	009384
FC2060 - fire control panel (modular)	A6V10087844
FC2080 - fire control panel (19", modular)	A6V10275515
FT2040 - fire terminal	009386
FT2080 - fire terminal (Touch)	A6V10378271
Fire detection system with integrated single or multi-sector extinguishing	A6V11480005
Network Security Guidelines	A6V101039125
Planning overview	A6V10906627

Related documents such as the environmental declarations, CE declarations, etc., can be downloaded from the following Internet address:

https://siemens.com/bt/download

Notes

Safety

⚠	⚠ CAUTION
	National safety regulations
	Failure to comply with national safety regulations may result in personal injury and property damage.
	• Observe national provisions and comply with the appropriate safety regulations.

Disposal

	The device is considered an electronic device for disposal in accordance with the European Guidelines and may not be disposed of as domestic garbage.
	• Dispose of the device through channels provided for this purpose.
	• Comply with all local and currently applicable laws and regulations.
	• Dispose of empty batteries in designated collection points.

Guarantee

Technical data on specific applications are valid only together with Siemens products listed under "Equipment combinations". Siemens rejects any and all warranties in the event that third-party products are used.

Technical data

You will find information on the technical data of the individual fire control panels and fire terminals in the separate data sheet for the respective control panel or terminal type. You will find information on the document ID of the documents in section 'Product documentation [➜ 28]'.