

Sinteso™

# Fire control panel

# Compact, pre-assembled fire control panel with integrated, user-friendly operating unit.

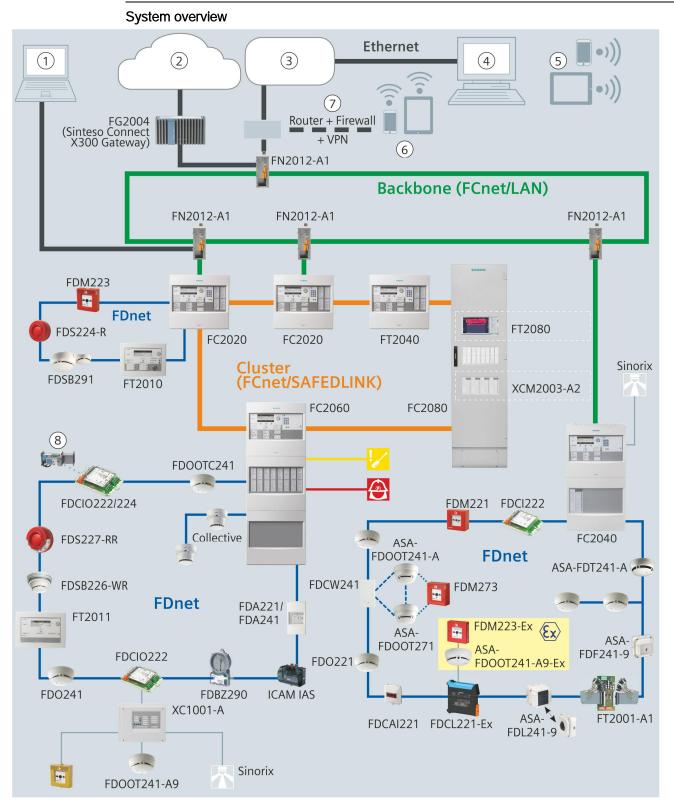
- Fire control panel for a maximum of 504 addresses
- Optional, integrated single-sector extinguishing
- Can be used as a standalone version or networked with up to 64 stations, such as control panels and terminals
- Redundant network node with degraded mode operation according to EN 54
- Emergency power supply for emergency operating time of up to 72 hours
- Detection and automatic importing (auto-configuration) of all FDnet devices, ready for operation immediately
- Flexible configuration of complex applications and controls
- Configuration data can be uploaded/downloaded via remote access
- Extensions: Printer, key switches, LED indicators
- Time and situation-dependent changeover of detector parameter sets



#### System

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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                     |
| ! | Transmission of a fault signal                |
|   | Transmission of an alarm signal               |

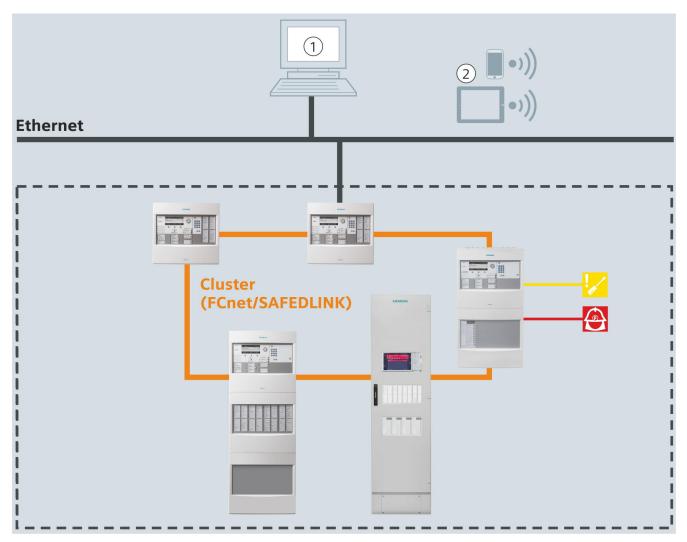
You will find a detailed labeled version of the diagram above along with further information in the A6V10906627 planning guide, see chapter 'Product documentation'.

#### Networking of fire control panels

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.

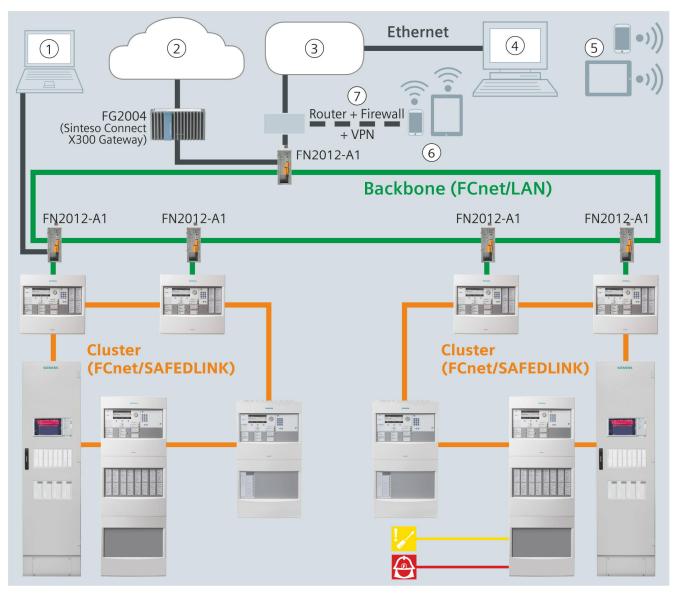




#### Sub-net

| 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   |
| <mark>!</mark> ~ | 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'.

#### General features and functions

- Fast Ethernet interface for a heterogeneous network
- Process signals from Sinteso
- 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

#### Control panel-specific features

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

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

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#### 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

FC2040-AG

#### 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

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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'.

| FCM2036-A2   | Operating add-on (4xLED indicator)  |
|--|---|
| No.         No. <td><ul> <li>Optional operating add-on with 96 indicator groups with one red/green + one yellow LED each</li> </ul></td> | <ul> <li>Optional operating add-on with 96 indicator groups with one red/green + one yellow LED each</li> </ul> |

| FCM2038-A2   | Operating add-on (2xLED indicator)  |
|--|---|
| And         Canada         Canada <td><ul> <li>Optional operating add-on with 48 indicator groups with one red/green + one<br/>yellow LED each</li> </ul></td> | <ul> <li>Optional operating add-on with 48 indicator groups with one red/green + one<br/>yellow LED each</li> </ul> |

| FH2002-A1 | Housing (Standard)  |
|-----------|---|
|           | <ul> <li>Empty housing for free use</li> <li>430 x 398 x183 mm</li> <li>E.g., for extra batteries, operating add-ons, or event printers</li> <li>Space for the following battery configurations: <ul> <li>2x FA2003-A1 (7 Ah) or</li> <li>2x FA2004-A1 (12 Ah)</li> </ul> </li> </ul> |

| FH2003-A1 | Housing (Comfort)   |
|-----------|---|
|           | <ul> <li>Empty housing for free use</li> <li>430 x 796 x 183 mm</li> <li>E.g., for extra batteries, operating add-ons, or event printers</li> <li>Space for the following battery configurations: <ul> <li>2x FA2003-A1 (7 Ah) or</li> <li>2x FA2004-A1 (12 Ah) or</li> <li>2x FA2005-A1 (17 Ah) or</li> <li>2x BAT12-25 (25 Ah)</li> </ul> </li> </ul> |

| FH2004-A1 | Housing (Large Extension)   |
|-----------|---|
|           | <ul> <li>Empty housing for free use</li> <li>430 x 398 x 283 mm</li> <li>E.g., for extra batteries, operating add-ons, or event printers</li> <li>Space for the following battery configurations: <ul> <li>2x FA2007-A1 (45 Ah) or</li> <li>2x FA2008-A1 (65 Ah)</li> </ul> </li> </ul> |

| FH2005-A1 | Housing (Large)   |
|-----------|---|
|           | <ul> <li>Empty housing for free use</li> <li>430 x 796 x 283 mm</li> <li>E.g., for extra batteries, operating add-ons, or event printers</li> <li>Space for the following battery configurations: <ul> <li>4x BAT12-25 (25 Ah) or</li> <li>4x FA2007-A1 (45 Ah) or</li> <li>2x FA2008-A1 (65 Ah)</li> </ul> </li> </ul> |

| FH2007-A1 | Housing (Standard + plan compartment)  |
|-----------|--|
| PLANFACH  | <ul> <li>Empty housing for A4 documents</li> <li>430 x 398 x 183 mm</li> <li>Depth 150 mm</li> </ul> |

| FTO2001-A1 | Event printer   |
|------------|---|
|            | <ul> <li>Thermal printer for installation in operating units or operating add-ons</li> <li>Can be controlled via the RS232 module FCA2001-A1 (order separately)</li> <li>Logs all important events, such as alarms, faults, isolations, and test functions</li> </ul> |
|            |   |
| DL3750+    | Matrix printer (external)   |
| DL3750+    | External matrix printer recommended by Siemens  |
| DL3750+    |   |

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.

#### Design

#### **Function elements**

#### Operating unit

The following elements are available on the operating unit:

- CPU module and electronics
- Ethernet connection
- Slots for RS232 and RS485 modules and network modules (SAFEDLINK)
- Space for 'Kaba' or 'nordic' key switch
- Space for event printer (depending on version)
- Peripheral data bus connection for optional LED modules

#### Periphery board

The following elements are available on the periphery board:

- Connection terminals for:
  - FDnet lines
  - Remote transmission (alarm, fault)
  - Horn output
  - Configurable control inputs and outputs
  - Monitored alarm and fault output
  - Power supply and emergency supply
- 2x slot for loop extension (FDnet)

#### Power supply unit 150 W, emergency power supply

The power supply feeds the hardware and charges the batteries. In the event of a power cut, the batteries provide emergency current.

#### Housing

A pivoting mounting plate can be fitted for the following elements above the periphery board on the rear housing panel:

- 1x fire brigade periphery module (for Germany)
- 2x sounder module (as an alternative to mounting on U-rail TS35)

#### Configuration

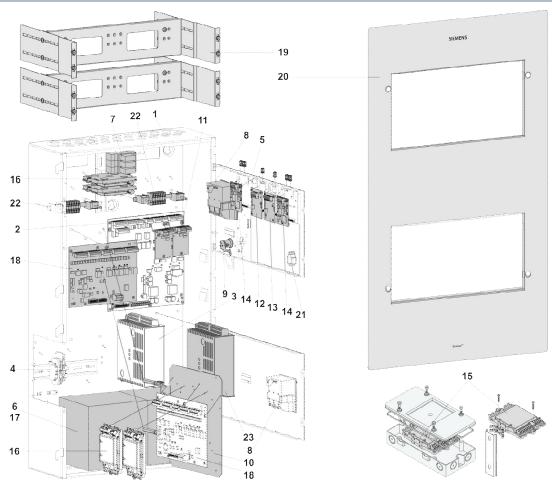
The following software allows the system to be customized:

SintesoWorks

#### Operation

Each control unit has an integrated operating unit. The control panel can also be operated via a separate FT2040 or FT2080 (Touch) fire terminal.

You will find details and more information in product data sheet 009386.



FC2040 Comfort

| Position        | Designation                      | Туре         | Comment                                     |  |  |
|-----------------|----------------------------------|--------------|---|--|--|
| Basic equipment |                                  |              |   |  |  |
| 1               | Housing (Comfort)                | FHA2003-A1   | Items 1-5: Basic equipment for each FC2040- |  |  |
| 2               | Periphery board (4 loops)        | FCI2004-A1   | xx (Comfort)                                |  |  |
| 3               | Power supply (SV 24 V-150 W)     | V24230-Z6-A5 |   |  |  |
| 4               | Mains terminals on TS35 DIN rail | -            | Space for socket, relay modules, etc.       |  |  |
| 5               | Operating unit                   | FCM20xx-xx   | Operating unit with CPU                     |  |  |
| 6               | Space for batteries              | -            | 2x 12 V / 1725 Ah                           |  |  |

| Position  | Designation                   | Туре       | Comment  |
|-----------|-------------------------------|------------|--|
| Extensior | IS                            |            |  |
| 7         | Relay module                  | Z3B171     | Relay for fire controls  |
| 8         | Event printer                 | FTO2001-A1 | For logging events   |
| 9         | Key switch (Kaba)             | FTO2005-C1 | For operating access authorization   |
|           | Key switch (nordic)           | FTO2006-B1 |  |
| 10        | Mounting plate                | FHA2007-A1 | E.g., for fire brigade periphery module  |
| 11        | Loop extension (FDnet)        | FCI2003-A1 | For extending the number of loops from two to four, the number of addresses remains the same   |
| 12        | RS485 module (isolated)       | FCA2002-A1 | For peripheral devices with RS485 interface  |
| 13        | RS232 module (isolated)       | FCA2001-A1 | For devices with an RS232 interface  |
| 14        | Network module (SAFEDLINK)    | FN2001-A1  | For networking several stations  |
| 15        | Repeater (SAFEDLINK)          | FN2002-A1  | For extending the FCnet system bus, max. 1x repeater (SAFEDLINK) between two stations (mounted directly on a plane surface, on a TS35 U-rail, or in housing FDCH291/292) |
| 16        | Sounder module                | FCA2005-A1 | For splitting one conventional sounder into four   |
| 17        | Battery (12 V, 25 Ah, VdS)    | BAT12-25   | For the emergency power supply   |
| 18        | Fire brigade periphery module | FCI2001-D1 | For Germany (FBF, FSD, ÜE, FSE, ÖA, KL)  |
| 19        | 19" mounting kit              | FHA2016-A1 | For installation in 19" third-party housing  |
| 20        | FM blind 2HE                  | FHA2015-A1 | For recessed mounting of housing   |
| 21        | License key Sx                | FCA20xx    | For special functions  |
| 22        | Cable kit (communication)     | FCA2014-A1 | For flexible connections running to the modules on the operating unit  |
| 23        | Power supply kit (150 W, B)   | FP2005-A1  | For extra power supply   |

# Type Overview

|  |             | Housing (Comfort) |             | Housing (Large) |  |  |
|--|-------------|-------------------|-------------|-----------------|--|--|
|  |             |                   |             |                 |  |  |
| Туре   | FC2040-AA   | FC2040-AE         | FC2040-AG   | FC2040-GA       |  |  |
| Order number   | A5Q00016100 | A5Q00016852       | A5Q00016854 | S54400-C3-A3    |  |  |
| Number of FDnet addresses  |             | 5                 | 04          |                 |  |  |
| Number of lines:   |             |                   |             |                 |  |  |
| Loops (with loop extension) or                                     |             | 4 (8)             |             |                 |  |  |
| Stubs (with loop extension)  |             | 8 (16)            |             |                 |  |  |
| Power supply   | 150 W       |                   |             |                 |  |  |
| Max. battery capacity  | 26 Ah       |                   |             | 45 Ah           |  |  |
| Indicator groups<br>with one<br>red/green + one<br>yellow LED each | -           | 48                | 96          | -               |  |  |

# Details for ordering

# Control panels

| Туре      | Designation                  | Weight    | Order number |
|-----------|------------------------------|-----------|--------------|
| FC2040-AA | Fire control panel (4 loops) | 14.975 kg | A5Q00016100  |
| FC2040-AE | Fire control panel (4 loops) | 15.235 kg | A5Q00016852  |
| FC2040-AG | Fire control panel (4 loops) | 15.524 kg | A5Q00016854  |
| FC2040-GA | Fire control panel (4 loops) | 19.626 kg | S54400-C3-A3 |



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'.

| Туре       | Designation                               | Weight    | Order number    |
|------------|---|-----------|-----------------|
| FCA2001-A1 | RS232 module (isolated)                   | 0.033 kg  | A5Q00005327     |
| FCA2002-A1 | RS485 module (isolated)                   | 0.027 kg  | A5Q00009923     |
| FCA2005-A1 | Sounder module                            | 0.100 kg  | A5Q00014866     |
| FCA2014-A1 | Cable kit (communication)                 | 0.126 kg  | A5Q00023027     |
| FCI2001-D1 | Fire brigade periphery module             | 0.207 kg  | A5Q00013100     |
| FCI2003-A1 | Loop extension (FDnet)                    | 0.030 kg  | A5Q00010136     |
| FCM2036-A2 | Operating add-on (4xLED indicator)        | 3.905 kg  | S54400-B147-A1  |
| FCM2038-A2 | Operating add-on (2xLED indicator)        | 2.516 kg  | S54400-B146-A1  |
| FH2002-A1  | Housing (Standard)                        | 7.193 kg  | A5Q00018931     |
| FH2003-A1  | Housing (Comfort)                         | 11.051 kg | A5Q00009906     |
| FH2004-A1  | Housing (Large Extension)                 | 11.367 kg | A5Q00018778     |
| FH2005-A1  | Housing (Large)                           | 17.900 kg | A5Q00019543     |
| FH2007-A1  | Housing (Standard + plan<br>compartment)  | 9.430 kg  | A5Q00022369     |
| FHA2007-A1 | Mounting plate                            | 0.800 kg  | A5Q00010151     |
| FHA2015-A1 | FM blind 2HE                              | 5.050 kg  | A5Q00024621     |
| FHA2016-A1 | 19" mounting kit                          | 3.000 kg  | A5Q00020179     |
| FN2001-A1  | Network module (SAFEDLINK)                | 0.022 kg  | A5Q00012851     |
| FN2002-A1  | Repeater (SAFEDLINK)                      | 0.105 kg  | S24236-B2502-A1 |
| FN2006-A1  | Fiber network module (SM)                 | 0.792 kg  | S54400-A109-A1  |
| FN2007-A1  | Fiber network module (MM)                 | 0.792 kg  | S54400-A110-A1  |
| FTO2001-A1 | Event printer                             | 0.141 kg  | A5Q00010126     |
| -          | Spare printer reels (10 reels)            | 0.090 kg  | A5Q00017619     |
| FTO2005-C1 | Key switch (Kaba)                         | 0.083 kg  | A5Q00010113     |
| FTO2006-B1 | Key switch (nordic)                       | 0.046 kg  | A5Q00010129     |
| Z3B171     | Relay module 250 V AC / 10 A<br>(1 relay) | 0.042 kg  | 4843830001      |

## Auxiliary power supply

| Туре      | Designation  | Weight   | Order number |
|-----------|--|----------|--------------|
| FP2004-A1 | Power supply kit (150 W, A) for<br>EN-compliant installation in empty<br>housing | 1.286 kg | A5Q00020825  |
| FP2005-A1 | Power supply kit (150 W, B) for extension  | 1.181 kg | A5Q00018779  |

# Network (backbone)

| Туре       | Designation               | Weight                  | Order number   |
|------------|---------------------------|-------------------------|----------------|
| FCA2031-A1 | Connection module (MoNet) | 0.081 kg<br>incl. cable | S54400-A153-A1 |
| FHA2029-A1 | Mounting kit (switch)     | 1.261 kg                | S54400-B79-A1  |
| FN2012-A1  | Ethernet switch (modular) | 0.600 kg                | S54400-B152-A1 |
| VN2002-A1  | Ethernet module (MM)      | 0.026 kg                | S54400-A43-A1  |
| VN2003-A1  | Ethernet module (SM)      | 0.026 kg                | S54400-A44-A1  |

## Batteries

| Туре       | Designation                | Weight    | Order number   |
|------------|----------------------------|-----------|----------------|
| FA2003-A1  | Battery (12 V, 7 Ah, VdS)  | 2.350 kg  | A5Q00019353    |
| FA2004-A1  | Battery (12 V, 12 Ah, VdS) | 3.750 kg  | A5Q00019354    |
| FA2005-A1  | Battery (12 V, 17 Ah, VdS) | 5.700 kg  | A5Q00019677    |
| BAT12-25   | Battery (12 V, 25 Ah, VdS) | 7.8 kg    | S54302-Z102-A1 |
| FA2007-A1  | Battery (12 V, 45 Ah, VdS) | 14.500 kg | A5Q00022897    |
| FA2008-A1  | Battery (12 V, 65 Ah, VdS) | 21.300 kg | A5Q00019357    |
| FHA2061-A1 | Mounting kit (batteries)   | -         | S54400-B91-A1  |

# License keys

| Туре       | Designation      | Weight   | Order number   |
|------------|------------------|----------|----------------|
| FCA2033-A1 | License key (S1) | 0.010 kg | S54400-P154-A1 |
| FCA2034-A1 | License key (S2) | 0.010 kg | S54400-P155-A1 |
| FCA2035-A1 | License key (S3) | 0.010 kg | S54400-P156-A1 |
| FCA2036-A1 | License key (S4) | 0.010 kg | S54400-P157-A1 |

# External printer

| Туре    | Designation                             | Weight   | Order number |
|---------|---|----------|--------------|
| DL3750+ | Matrix printer (external)               | 7.300 kg | A5Q00023962  |
| -       | Color ribbon for matrix printer DL3750+ | 0.078 kg | A5Q00023963  |

| 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

#### 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.

| FC2040 in the housing (Comfort)              |                          |  |
|--|--------------------------|--|
| Supply                                       |                          |  |
| Mains voltage                                | AC 115 / 230 V +10/-15 % |  |
| Power supply                                 | 150 W                    |  |
| Operating voltage                            | DC 2128.4 V              |  |
| Operating current                            | Max. 5 A                 |  |
| Battery capacity                             | 2x 12 V, 25 Ah           |  |
| Battery monitoring                           | Yes                      |  |
| Network monitoring                           | Yes                      |  |
| Inputs / outputs                             |                          |  |
| Connectable detector series                  | Sinteso (FDnet )         |  |
| Number of addresses                          | Max. 504                 |  |
| Number of integrated line cards              | 2                        |  |
| Number of lines:                             |                          |  |
| • Loops (with loop extension) or             | 4 (8)                    |  |
| • Stubs (with loop extension)                | 8 (16)                   |  |
| Integrated inputs/outputs:                   |                          |  |
| Alarm RT relay output                        | 1                        |  |
| Fault RT relay output                        | 1                        |  |
| Monitored alarm outputs                      | 1                        |  |
| Monitored fault outputs                      | 1                        |  |
| Monitored horn outputs                       | 2                        |  |
| • Freely programmable inputs/outputs         | 12                       |  |
| Interfaces                                   |                          |  |
| Operating unit                               | Integrated               |  |
| Slots for serial interfaces RS232, RS485     | 2                        |  |
| Slots for network modules                    | 2                        |  |
| Slot for loop extension                      | 2                        |  |
| Mounting space for cable kit (communication) | 2                        |  |
| Sounder module                               | Max. 2                   |  |
| Ethernet port RJ45                           | 1                        |  |
| Ambient conditions                           |                          |  |
| Operating temperature                        | -8+42 °C                 |  |
| Storage temperature                          | -20+60 °C                |  |
| Air humidity (no condensation permitted)     | ≤95 % rel.               |  |
| Maximum height above sea level               | 3700 m                   |  |

| FC2040 in the housing (Comfort) |                      |  |
|---------------------------------|----------------------|--|
| Mechanical data                 |                      |  |
| Dimensions (W x H x D):         |                      |  |
| Without cover cap               | 430 x 796 x 160 mm   |  |
| • With cover cap                | 430 x 796 x 183 mm   |  |
| Protection category (IEC 60529) | IP30                 |  |
| Color:                          |                      |  |
| Housing                         | ~RAL 7035 light gray |  |
| Cover cap                       | ~RAL 9010            |  |
| Approvals                       |                      |  |
| VdS                             | G206110              |  |
| LPCB                            | 126bn/03             |  |
| FM                              | 3048514              |  |
| DNV GL (marine)                 | MEDB00003UW          |  |

| FC2040 in the housing (Large)        |                          |  |
|--------------------------------------|--------------------------|--|
| Supply                               |                          |  |
| Mains voltage                        | AC 115 / 230 V +10/-15 % |  |
| Power supply                         | 150 W                    |  |
| Operating voltage                    | DC 2128.4 V              |  |
| Operating current                    | Max. 5 A                 |  |
| Battery capacity                     | 2x 12 V, 25 Ah           |  |
| Battery monitoring                   | Yes                      |  |
| Network monitoring                   | Yes                      |  |
| Inputs / outputs                     |                          |  |
| Connectable detector series          | Sinteso (FDnet )         |  |
| Number of addresses                  | Max. 504                 |  |
| Number of integrated line cards 2    |                          |  |
| Number of lines:                     |                          |  |
| • Loops (with loop extension) or     | 4 (8)                    |  |
| • Stubs (with loop extension)        | 8 (16)                   |  |
| Integrated inputs/outputs:           |                          |  |
| Alarm RT relay output                | 1                        |  |
| Fault RT relay output                | 1                        |  |
| Monitored alarm outputs              | 1                        |  |
| Monitored fault outputs              | 1                        |  |
| Monitored horn outputs               | 2                        |  |
| • Freely programmable inputs/outputs | 12                       |  |

| FC2040 in the housing (Large)                |                      |  |
|--|----------------------|--|
| Interfaces                                   |                      |  |
| Operating unit                               | Integrated           |  |
| Slots for serial interfaces RS232, RS485     | 2                    |  |
| Slots for network modules                    | 2                    |  |
| Slot for loop extension                      | 2                    |  |
| Mounting space for cable kit (communication) | 2                    |  |
| Sounder module                               | Max. 2               |  |
| Ethernet port RJ45                           | 1                    |  |
| Ambient conditions                           |                      |  |
| Operating temperature                        | -8+42 °C             |  |
| Storage temperature                          | -20+60 °C            |  |
| Air humidity (no condensation permitted)     | ≤95 % rel.           |  |
| Maximum height above sea level               | 3700 m               |  |
| Mechanical data                              |                      |  |
| Dimensions (W x H x D):                      |                      |  |
| Without cover cap                            | 430 x 796 x 260 mm   |  |
| • With cover cap                             | 430 x 796 x 283 mm   |  |
| Protection category (IEC 60529)              | IP30                 |  |
| Color:                                       |                      |  |
| Housing                                      | ~RAL 7035 light gray |  |
| Cover cap                                    | ~RAL 9010            |  |
| Approvals                                    |                      |  |
| VdS  | G206110              |  |
| LPCB   | 126bn/03             |  |
| FM   | 3048514              |  |
| DNV GL (marine)                              | MEDB00003UW          |  |

| 09 <b>C E</b> 0786 <b>FC20</b>       | 10-AA / FC2040-AE / FC2040-AG / FC204<br>FC2040-CC / FC2040-GA / FC2040-NA   | <b>10-BB /</b> Siemens Schweiz AG; Theilerstrasse 1a<br>CH-6300 Zug<br>Technical data: see doc. <b>008836</b>   |
|--------------------------------------|--|---|
| FC2040 - Co                          | ntrol and Indicating Equipment incl. SV24V150W - 150W/24<br>for use in fire detection and fire alarm systems installed   |   |
| 305/2011/EU (CPR): EN 54-2 / EN 54-4 | ; 2014/30/EU (EMC): EN 50130-4 / EN 61000-6-3 ; 2014/3   | 5/EU (LVD): EN 60950-1 ; 2011/65/EU (RoHS): EN 50581  |
|                                      | ormity can be seen in the Declaration of Performance (DoP)<br>a the Customer Support Center: Tel. +49 89 9221-8000 or hi |   |
|                                      | DoP No.: 0786-CPR-20720; DoC No.: CED-FC   | 2040  |
| 13 <b>C E</b> 0786                   | SV24V150W  | Siemens Schweiz AG; Theilerstrasse 1a<br>CH-6300 Zug<br>Sinteso technical data: see doc. <b>008837</b><br>Cerberus™ PRO technical data: see doc. <b>A6V10210368</b> |
| SV24V150W - Power                    | Supply Equipment 24VDC/150W for use in fire detection and  | d fire alarm systems installed in buildings.  |
| 305/2011/EU (CPR): EN 54-4 ; 20      | 4/30/EU (EMC): EN 50130-4 / EN 61000-6-3 ; 2014/35/EU  | (LVD): EN 60950-1 ; 2011/65/EU (RoHS): EN 50581   |
|                                      | conformity can be seen in the Declaration of Performance (<br>ole via the Customer Support center: Tel. +49 89 9221-8000 |   |
|                                      |  |   |

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