



## FT2040

Sinteso™

## Fire terminal

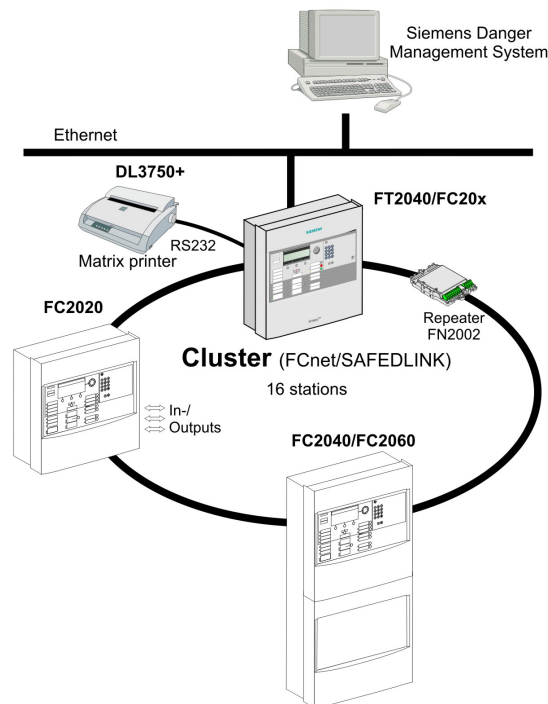


for fire control panels of the series FS20 (MP5.0)

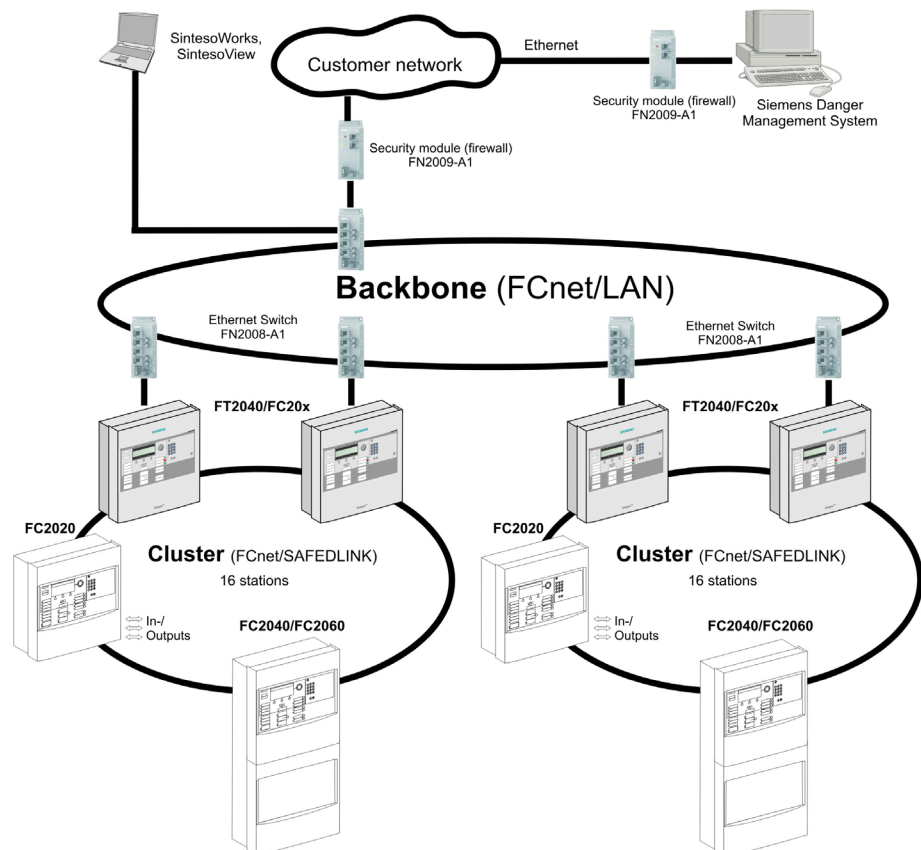
- **System operation and indication**
- **Large backlit display (8 lines of 40 characters each)**
  - Plain text display with two lines of information per alarm event
  - Context-sensitive soft keys
  - Additional spontaneous display of location-specific intervention texts
  - Simultaneous display of multiple events
  - Context and status-sensitive operation via soft keys
- **Operating and indication elements ergonomically organized in functional groups**
- **Different operating levels according to user profile**
- **Operating access via password or optional key switch (for operation of the entire system)**
- **Several operator terminals possible for each fire detection system**
- **Optional accessories include parallel display, power supply, serial ports and key switches**

## System overview

Up to 32 fire control panels and fire control terminals can be connected in a single cluster (FCnet/SAFEDLINK) or up to 16 stations when the cluster is connected to a danger management system.



Using a fiber-optic Backbone (FCnet/LAN) up to 14 of the above mentioned clusters (with up to 16 stations each) can be networked. The entire network may contain up to 64 stations.



## Function characteristics

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- The FT2040 fire terminal is an operating panel remote from the central control panel that can optionally have its own power supply
- The operating unit has installation slots for optional interfaces such as RS232, RS485, networking modules (SAFEDLINK) and a key switch.
- Each station has an Ethernet connection
- The high-performance FCnet makes it possible to network up to 32 FC20xx fire control panels and FT2040 fire terminals together as required.
- Max. 5 fire terminals with system wide view configurable
- Connection of Siemens Danger Management System.

→ For details about system networking, please refer to product data sheet 008955

## Functional elements

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### Operating unit

The following are located on the operating unit:

- CPU module and the electronics for the operating unit
- Ethernet connection
- Slots for RS232, RS485 modules and networking modules (SAFEDLINK)
- Space for 'Kaba' or 'nordic' key switch
- Space for event printer (for FT2040-AZ)

### Fire terminal board

The following are located on the fire terminal board:

- Connection terminals for internal power supply, for the 24 V supply from the control panel and for the external 24 V power source

### Housing

The housing has space for a 70 W power supply and 2 x 12 V / 7 Ah batteries.

### Housing (Eco)

#### FT2040-AZ

430 x 398 x 80 mm



Without power supply

#### FT2040-EZ

With 24 indicator groups  
with each one red + yellow LED  
430 x 398 x 80 mm



Without power supply

### Expansion housing (Eco) and operating add-ons

#### FH2001-A1

Housing (Eco)  
430 x 398 x 80 mm



Empty housing  
For various applications  
e.g. for additional batteries

#### FCM2038-A2

48 indicator groups  
with each one red/green +  
yellow LED



For retrofitting

#### FCM2036-A2

96 indicator groups  
with each one red/green + yellow  
LED



For retrofitting

#### FH2006-A1

Housing (Eco +plan comp.)  
430 x 398 x 80 mm



Empty housing for documents  
A4, Depth 50 mm

### Internal printer

#### FTO2001-A1

Event printer



Can be installed in  
– FT2040-AZ  
– FH2001-A1

RS232 module must be ordered  
separately

### External printer

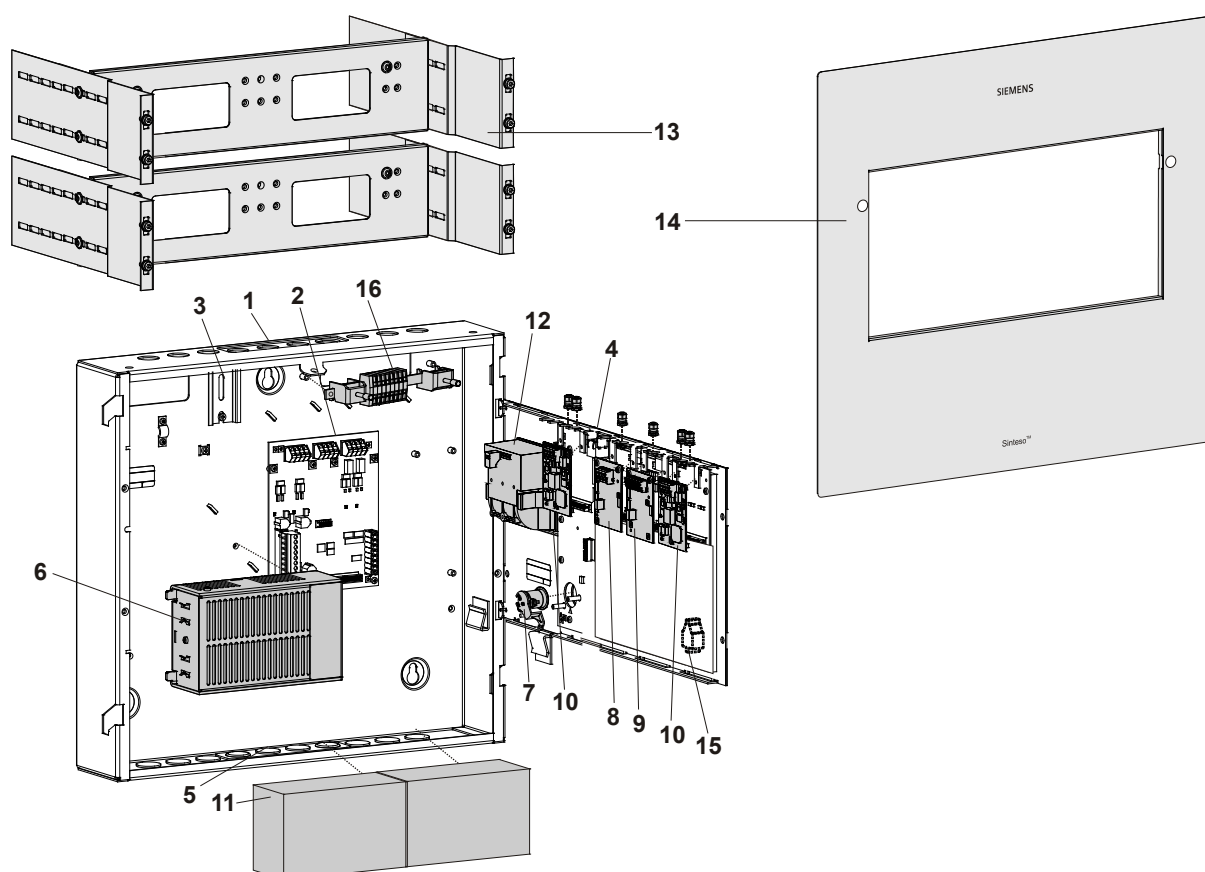
#### DL3750+

Matrix printer (Extern)  
RS232 interface

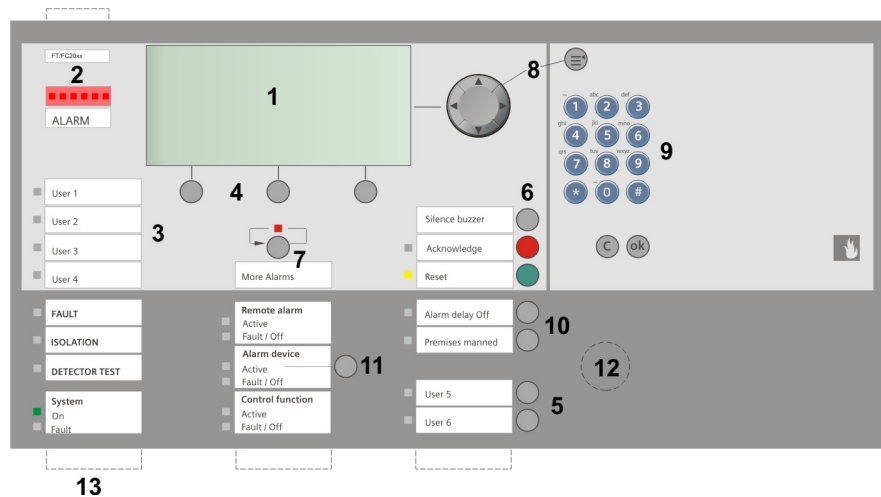


RS232 module must be ordered  
separately

## Configuration of FT2040




Basic equipment		Designation	Notes
1	Rear (Eco)	FHA2001-A1	Pos. 1- 5 → Basic equipment for each FT2040-xx (Eco)
2	Fire terminal board	FTI2001-A1	
3	DIN mounting rail TS35	–	
4	Operating unit	FCM20xx-xx	Combined system operating panel and CPU, incl. cover
5	Space for batteries	–	max. 2 x 12 V / 7 Ah
Expansion			
6	Power supply kit (70 W)	FP2003-A1	If the terminal is not powered from the control panel
7	Key switch (Kaba)	FTO2005-C1	For operating access rights
	Key switch (Nordic)	FTO2006-B1	
8	RS485 module (isolated)	FCA2002-A1	For peripheral devices with RS485 port
9	RS232 module (isolated)	FCA2001-A1	For stations with RS232 port
10	Networking module (SAFEDLINK)	FN2001-A1	For networking various stations
11	Battery (12V, 7Ah, VDS)	FA2003-A1	For emergency power supply
12	Event printer	FTO2001-A1	For event logging
13	19" mounting kit	FHA2016-A1	For the installation in 3rd party housings
14	FM-blind 1HU	FHA2017-A1	For the recess mounting of housings
15	License key Sx	FCA20xx	For special functions
16	Cable kit (communication)	FCA2014-A1	For flexible cable connections to the modules on the operating unit



- 1 Large-format, backlit plain text display (LCD 256 x 112 dots) with detailed plain text information for all events that occur
  - Event type, event location, intervention texts, operating status, etc.
  - Operator guidance texts are displayed directly in alarm situations
  - Convenient operation via soft keys and navigation key
- 2 Alarm indicator lights red when an alarm even is received
- 3 4 programmable LEDs and div. display fields
- 4 Soft keys for direct menu operation
- 5 2 operation keys with LEDs, individually programmable
- 6 Keys → 'Buzzer off', 'Acknowledge' message and 'Reset' message
- 7 Key for scrolling through the alarm messages
- 8 Navigation and menu key for the display
- 9 Keypad for numerical and alphanumeric entries such as password, customer text, etc.
- 10 Function keys for alarm organization
- 11 Display and key field for alarming equipment
- 12 Optional key switch for operating access (Kaba or Nordic)
- 13 Label strips inserts.

## Technical data

Fire terminal	Operating voltage	DC 21...28.6 V
	Current consumption at 24 V	
	– Quiescent current (LCD illumination inactive)	125 mA
	– Alarm current (LCD illumination active)	130 mA
	Plug-in position for serial interfaces RS232, RS485	2
	Plug-in position for network module	2
	Ethernet connection RJ45	1
	Operating temperature	-8...+42 °C
	Storage temperature	-20...+60 °C
	Humidity (no condensation permitted)	≤95 % rel.
	Dimensions (W x H x D)	
	– Without cover cap	430 x 398 x 80 mm
	– With cover cap	430 x 398 x 108 mm
	Color	
	– Housing	grey, ~RAL 7035
	– Cover	white, ~RAL 9010
	– Foil	silver, ~RAL 9006, white, ~RAL 9010, keys grey, ~RAL 7035, blue ~RAL 5014
	Protection category (IEC 60529)	IP30
	Approvals	
	– VdS	G206111
	– LPCB	126bn/R01
	– FM	approved
	Power supply (optional)	70 W
	Battery capacity (optional)	max. 2 x 12 V / 7 Ah

06 	<b>FT2040</b>	Siemens Switzerland Ltd; Gubelstrasse 22 CH-6301 Zug Technical data: see doc. <b>008836</b>
	FT2040 - Control and Indicating Terminal for use in fire detection and fire alarm systems installed in buildings	
	2004/108/EC (EMC): EN 50130-4 / EN 61000-6-3 ; 2006/95/EC (LVD): EN 60950-1 ; 2011/65/EU (RoHS): EN 50581 ;	
	Declared performance and conformity can be seen in the Declaration of Performance and the EC Declaration of Conformity, which is obtainable via the Customer Support Center: Tel. +49 89 9221-8000 or <a href="http://siemens.com/bt/download">http://siemens.com/bt/download</a>	
	DoC No.: CED-FT2040	

## Details for ordering

	Type	Part no	Designation	Weight
Fire terminals	FT2040-AZ	A5Q00016702	Fire terminal	8.860 kg
	FT2040-EZ	A5Q00016720	Fire terminal	9.780 kg
Expansion	FH2001-A1	A5Q00016865	Housing (Eco)	5.700 kg
	FH2006-A1	A5Q00022364	Housing (Eco +plan comp.)	10.000 kg
	FCM2038-A2	S54400-B146-A1	Operating add-on (2xLED ind.)	2.600 kg
	FCM2036-A2	S54400-B147-A1	Operating add-on (4xLED ind.)	2.800 kg
	FTO2005-C1	A5Q00010113	Key switch (Kaba)	0.068 kg
	FTO2006-B1	A5Q00010129	Key switch (nordic)	0.050 kg
	FCA2002-A1	A5Q00009923	RS485 module (isolated)	0.077 kg
	FCA2001-A1	A5Q00005327	RS232 module (isolated)	0.015 kg
	FN2001-A1	A5Q00012851	Networking module (SAFEDLINK)	0.650 kg
	FCA2014-A1	A5Q00023027	Cable kit (communication)	0.224 kg
	FTO2001-A1	A5Q00010126	Event printer	0.250 kg
	FP2003-A1	A5Q00016005	Power supply kit (70 W)	0.650 kg
	FA2003-A1	A5Q00019353	Battery (12 V, 7 Ah, VDS)	2.450 kg
	FHA2016-A1	A5Q00020179	19" mounting kit	3.000 kg
	FHA2017-A1	A5Q00024719	FM-blind 1HU	3.000 kg
	FN2006-A1	S54400-A61-A1	Fiber network module (SM)	0.770 kg
	FN2007-A1	S54400-A62-A1	Fiber network module (MM)	0.770 kg
License keys	FCA2033-A1	S54400-P154-A1	License key (S1)	0.010 kg
	FCA2034-A1	S54400-P155-A1	License key (S2)	0.010 kg
	FCA2035-A1	S54400-P156-A1	License key (S3)	0.010 kg
	FCA2036-A1	S54400-P157-A1	License key (S4)	0.010 kg
External printer	DL3750+	A5Q00023962	Matrix printer (Extern)	7.300 kg
Networks (backbone)	FN2008-A1	S54400-F94-A1	Ethernet-Switch	0.800 kg
	FN2009-A1	S54400-F95-A1	Security module	0.800 kg
	FHA2029-A1	S54400-B79-A1	Mounting kit for Ethernet switch (Comfort)	0.500 kg
	FHA2030-A1	S54400-B81-A1	Mounting kit for Ethernet switch (Large Ext.)	0.500 kg
Spare part	–	A5Q00023963	Black typewriter ribbon for matrix printer DL3750+	0.078 kg