SIEMENS

FT2040

Sinteso™

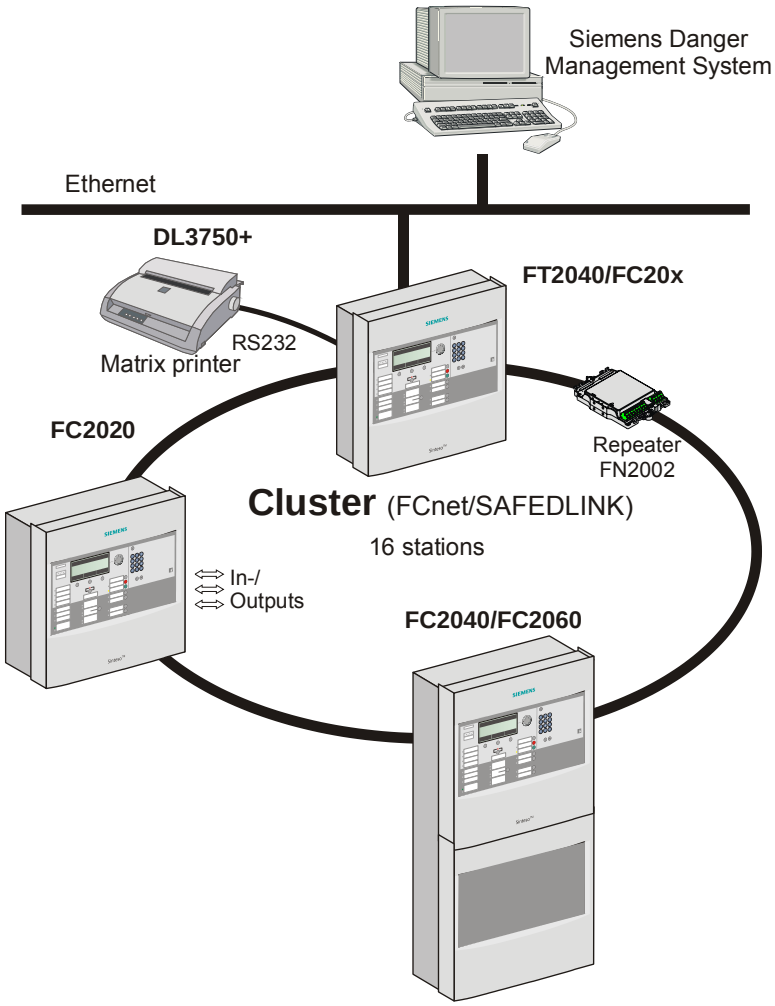
Fire terminal

FS20 series

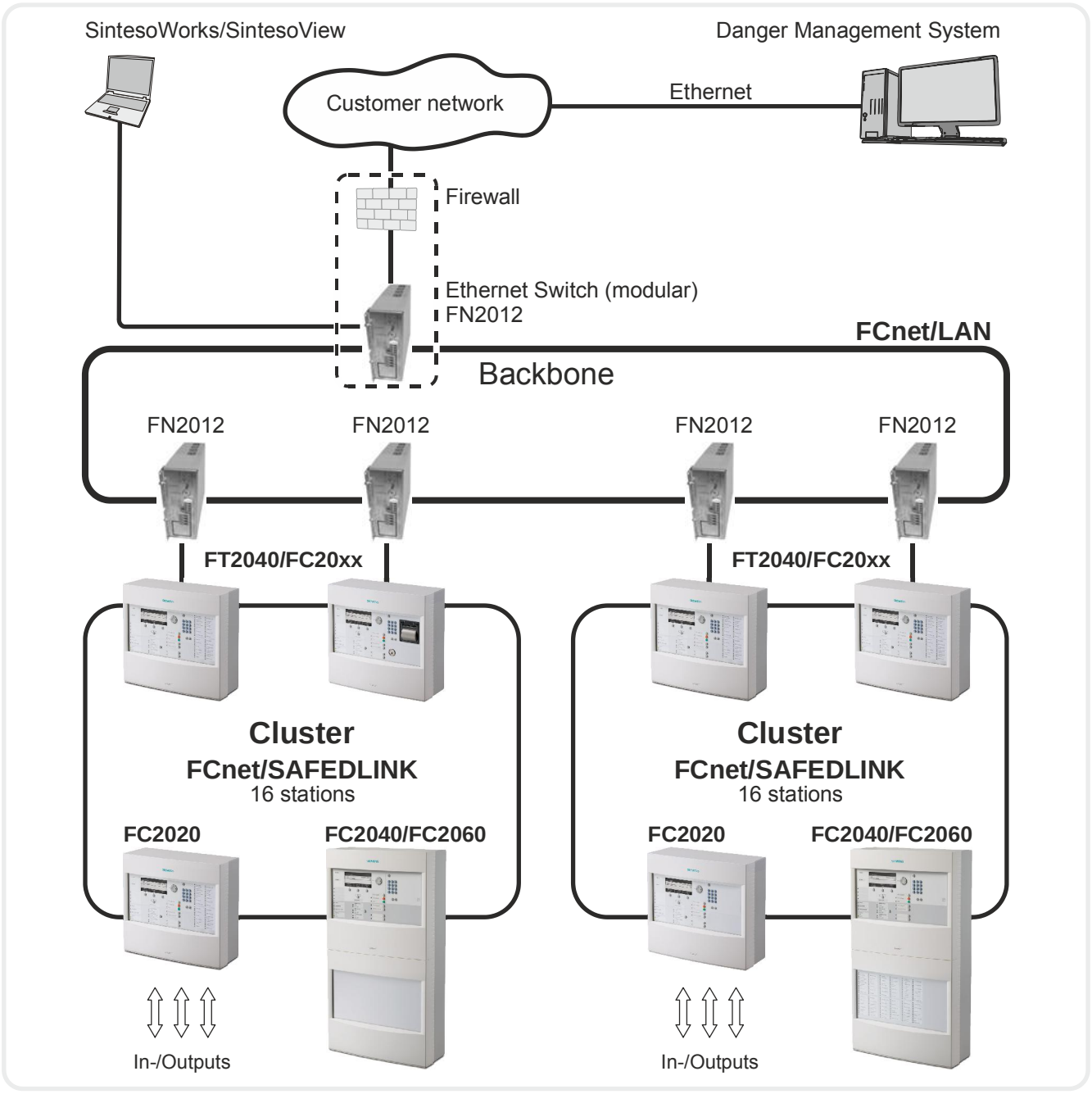
- **System operation and display functions**
- **Large backlit display: 8 lines of 40 characters each**
  - **One text display with two lines of information for each alarm event**
  - **Context-dependent soft keys**
  - **Ability to store location-specific action texts**
  - **Simultaneous display of multiple events**
- **Convenient context- and state-based operation via soft keys**
- **Ergonomically arranged operating and indication elements grouped according to function**
- **Different levels of operation according to access level**
- **Operating access via a password or optional key switch**
- **Possible to have several fire terminals per fire detection system**
- **Extensions possible, e.g., event printer, power supply, and serial interfaces**

Networking of several fire control panels

Up to 32 control panels and terminals can be linked to form a cluster (FCnet/SAFEDLINK network). If the cluster is connected to a danger management system via BACnet, up to 16 control panels and terminals can be networked.



An optical Ethernet network (FCnet/LAN) allows up to 14 clusters with up to 16 stations to be operated on one network. A maximum of 64 stations is supported in total.



You will find details of system networking in product data sheet 008955.

Function features

- The FT2040 fire terminal is a Person Machine Interface that is used remotely from a control panel and which can optionally be provided with its own power supply.
- 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 FC20xx fire control panels and FT2040 fire terminals with one another in any way.
- Up to five fire terminals can be configured with system-wide visibility.
- Siemens danger management system can be connected

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)

Fire terminal board

Connection terminals for the following elements are available on the fire terminal board:

- Optional power supply
- 24 V supply from a control panel
- External 24 V power source

Housing

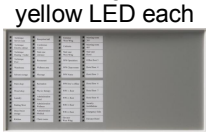
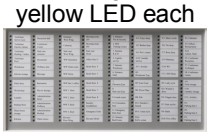
The housing contains sufficient space for an optional 70 W power supply and 2x batteries with a capacity of 7 Ah.

Overview of FT2040 fire terminals

Housing (Eco)

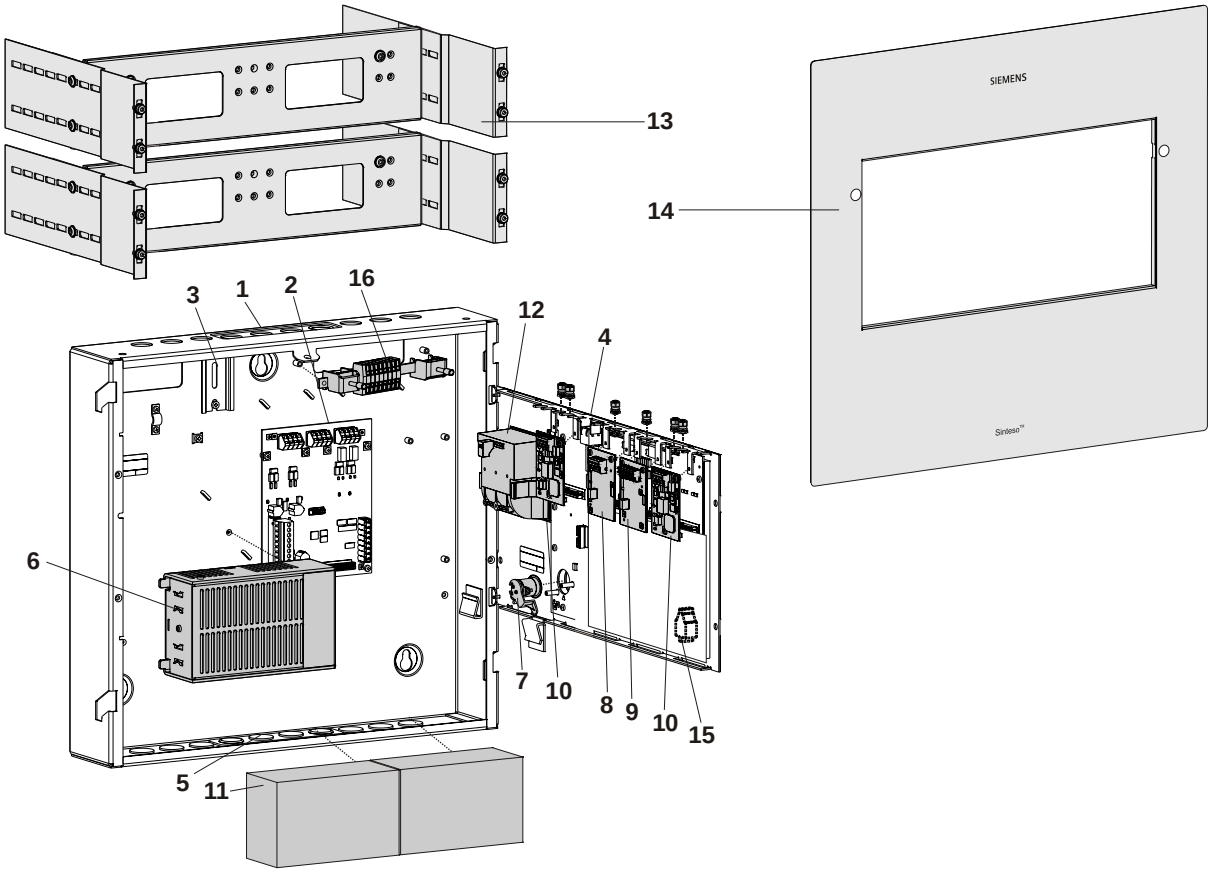
FT2040-AZ	FT2040-EZ
	Featuring 24 indicator groups with one red/green + one yellow LED each
Without power supply	Without power supply

Housing (Eco) and operating add-on extensions

FH2001-A1	FCM2038-A2	FCM2036-A2
Housing (Eco) 430 x 398 x 103 mm	48 display groups with one red/green + one yellow LED each	96 indicator groups with one red/green + one yellow LED each
		
Empty housing for free use e.g., for operating add-on or extra batteries	For retrofitting Only possible without plan compartment	For retrofitting Only possible without plan compartment

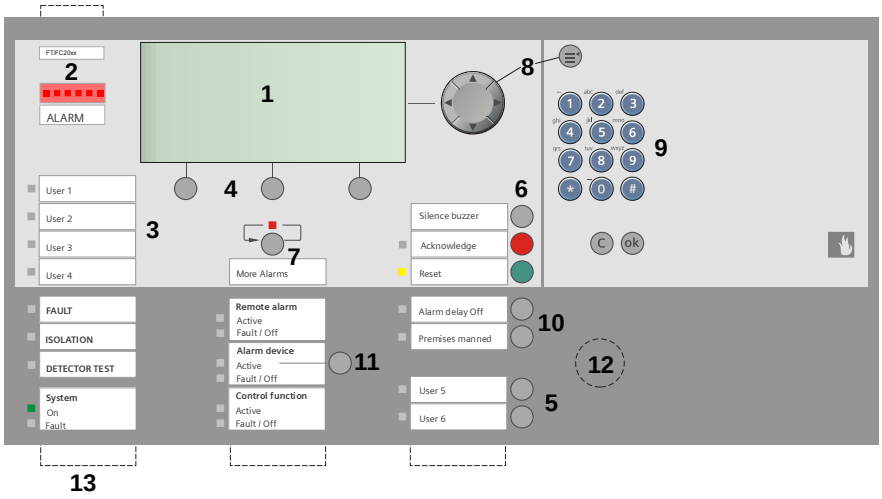
	Internal printer	External printer
FH2006-A1	**FTO2001-A1**	**DL3750+**
Housing (Eco + plan compartment) 430 x 398 x 103 mm	Event printer	Matrix printer (external) RS232 interface
Empty housing for A4 documents Depth 50 mm	For installation in – FT2040-AZ – FH2001-A1 RS232 module must be ordered separately	RS232 module must be ordered separately

Layout of FT2040



Basic equipment		Designation	Notes
1	Housing (Eco)	FHA2001-A1	Items 1-5: Basic equipment
2	Fire terminal board	FTI2001-A1	
3	U-rail TS35	–	Space for socket, disconnect terminals
4	Operating unit	FCM20xx-xx	Operating unit with CPU
5	Space for batteries	–	Max. 2x 12 V/7 Ah, optional, with power supply (70 W)
Extensions			
6	Power supply (70 W)	FP2015-A1	If fire terminal is not supplied with power by the control panel
7	Key switch (Kaba)	FTO2005-C1	For operating access authorization
	Key switch (nordic)	FTO2006-B1	
8	RS485 module (isolated)	FCA2002-A1	For peripheral devices with an RS485 interface
9	RS232 module (isolated)	FCA2001-A1	For devices with an RS232 interface
10	Network module (SAFEDLINK)	FN2001-A1	For networking several stations
11	Battery (12 V, 7 Ah, VDS)	FA2003-A1	For the emergency power supply
12	Event printer	FTO2001-A1	For logging events
13	19" mounting kit	FHA2016-A1	For installation in 19" third-party housing
14	FM blind 1HE	FHA2017-A1	For recessed mounting of housings
15	License key Sx	FCA20xx	For special functions
16	Cable kit (communication)	FCA2014-A1	For flexible connections running to the modules on the operating unit

FT2040 indication and operating elements



1 Backlit 8-line LC display with 40 characters per line and detailed text information about all events that occur:
- Event type, event location, action texts, operating states
- Instructions displayed directly in alarm situations to tell you what to do
- Convenient operation via soft keys and navigation button

2 Alarm indicator, lights up red when an alarm event occurs
3 Four configurable LEDs and associated inscription fields
4 Soft keys for direct operation depending on state
5 Two buttons with LEDs, individually configurable
6 Buttons for 'Buzzer off', 'Acknowledge' message, and 'Reset' message
7 Button for scrolling through alarm messages
8 Navigation and menu buttons
9 Keypad for entering numeric and alphanumeric texts, e.g., password or customer text
10 Alarm organization buttons
11 Button and LEDs with inscription fields for alarming equipment
12 Optional key switch for operating access (Kaba or Nordic)
13 Insertable inscription strips

Technical data

Operating voltage input	DC 20…30 V
Current consumption at 24 V	
– Quiescent current (LCD illumination inactive)	125 mA
– Alarm current (LCD illumination active)	130 mA
Supply outputs	2x Vsys
Slots for RS232, RS485 serial ports	2
Slots for network modules	2
Ethernet port RJ45	1
Operating temperature	-8…+42 °C
Storage temperature	-20…+60 °C
Air 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 103 mm
Color	
– Housing	~RAL 7035, light gray
– Cover cap	~RAL 9010, pure white
– Foil	~RAL 9006, white aluminum ~RAL 9010, pure white
– Buttons	~RAL 7035, light gray ~RAL 5014, pigeon blue
Protection category (IEC 60529)	IP30
Approvals	
– VdS	G206111
– LPCB	126bn/R01
– FM	3048514
Power supply (optional)	70 W
Capacity of batteries (optional)	Max. 2x 12 V/7 Ah

06 CE	**FT2040-AZ / FT2040-CZ / FT2040-FZ / FT2040-NZ**	Siemens Switzerland Ltd; Gubelstrasse 22 CH-6301 Zug Technical data: see doc. **008836**
FT2040 - Control and Indicating Terminal for use in fire detection and fire alarm systems installed in buildings.		
2014/30/EU (EMC): EN 50130-4 / EN 61000-6-3 ; 2014/35/EU (LVD): EN 60950-1 ; 2011/65/EU (RoHS): EN 50581		
The declared conformity can be seen in the EU Declaration of Conformity (DoC), which is obtainable via the Customer Support Center: Tel. +49 89 9221-8000 or http://siemens.com/bt/download		
DoC No.: CED-FT2040		

Details for ordering

	Type	Art. no.	Designation	Weight
Fire terminal	FT2040-AZ	A5Q00016702	Fire terminal	8.860 kg
	FT2040-EZ	A5Q00016720	Fire terminal	9.780 kg
Extensions	FH2001-A1	A5Q00016865	Housing (Eco)	5.700 kg
	FH2006-A1	A5Q00022364	Housing (Eco + plan compartment)	10.000 kg
	FCM2038-A2	S54400-B146-A1	Operating add-on (2xLED indicator)	2.600 kg
	FCM2036-A2	S54400-B147-A1	Operating add-on (4xLED indicator)	2.800 kg
	FTO2005-C1	A5Q00010113	Key switch (Kaba)	0.013 kg
	FTO2006-B1	A5Q00010129	Key switch (nordic)	0.050 kg
	FCA2002-A1	A5Q00009923	RS485 module (isolated)	0.067 kg
	FCA2001-A1	A5Q00005327	RS232 module (isolated)	0.068 kg
	FN2001-A1	A5Q00012851	Network module (SAFEDLINK)	0.077 kg
	FCA2014-A1	A5Q00023027	Cable kit (communication)	0.224 kg
	FTO2001-A1	A5Q00010126	Event printer	0.250 kg
	–	A5Q00017619	Spare printer reels (10 reels)	0.090 kg
	FP2015-A1	S54400-B121-A1	Power supply (70 W)	1.300 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 1 HU	3.000 kg
	FN2006-A1	S54400-A109-A1	Fiber network module (SM)	0.770 kg
	FN2007-A1	S54400-A110-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
Networks (backbone)	FN2012-A1	S54400-B152-A1	Ethernet switch (modular)	0.560 kg
	FCA2031-A1	S54400-A153-A1	Connection module (MoNet)	0.020 kg + 0.050 kg for cable
	VN2002-A1	S54400-A43-A1	Ethernet module (MM)	0.030 kg
	VN2003-A1	S54400-A44-A1	Ethernet module (SM)	0.030 kg
	FHA2029-A1	S54400-B79-A1	Mounting kit (switch)	1.240 kg
External printer	DL3750+	A5Q00023962	Matrix printer (external)	7.300 kg
Spare part	–	A5Q00023963	Color ribbon for matrix printer DL3750+	0.078 kg

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