SIEMENS

Cerberus™ FIT

Fire control panels FC360

FC361-xx, FC362-xx



Fire control panels (1 loop or 2 loops) for addressable peripheral devices with integrated operating unit

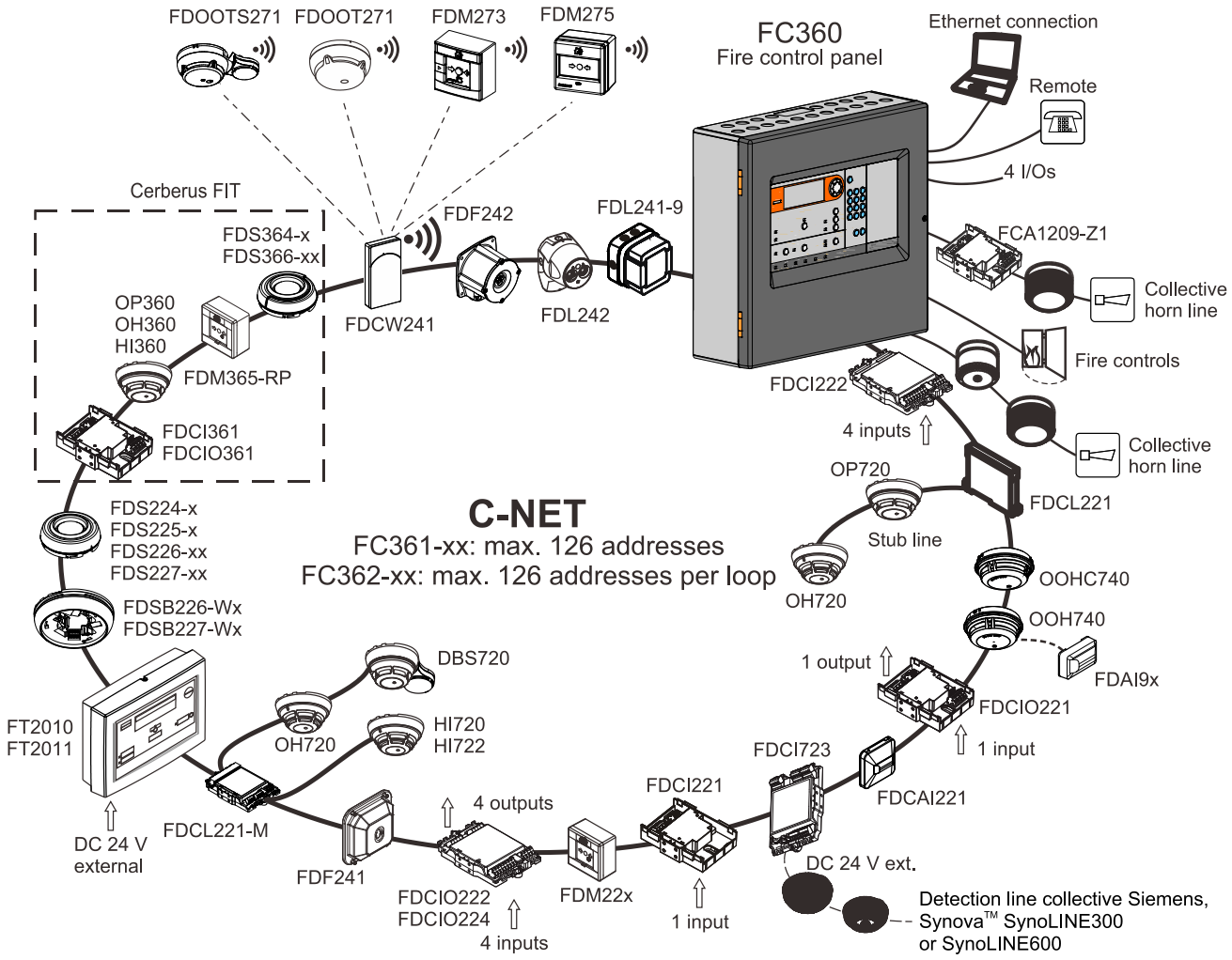
- FC361-xx: One loop or two stubs with 126 addresses
- FC362-xx: Two loops or four stubs with 252 addresses
- Two collective horn lines
- Three freely programmable relay outputs
- Four freely programmable control inputs/outputs
- Optional RS232 module for printer connection
- Optional RS485 module for ESPA pager module or DMS
- Optional module with four freely configurable monitored outputs
- Integrated web-server-based 'FC360 Panel Configurator' software, access via Ethernet connection (port)
- Installation space for optional components:
  - LED indicator (32 zones)
  - Key switch (standard) or key switch (Nordic)
  - Evacuation module (NL)
- Emergency power supply for emergency operating time of up to 72 hours

Properties

FC360 is a compact fire control panel with an integrated operating unit. It is possible to use loop as well as stub topology.

FC361-xx supports 126 addressable devices over one loop, while FC362-xx supports 252 addressable devices over two loops (max. 126 devices per loop).

Automatic fire detectors, alarm devices, input/output modules and a manual call point of the ‘Cerberus™ FIT' peripherals portfolio can be connected to the detector line. Additionally, other 'Cerberus PRO' devices are compatible with the detector line.



NOTICE	
!	• Max. 32 addressable devices can be connected to a single stub as per EN 54-2. • See document A6V10882301 for a whole list of connectable devices.

- The 'FC360 Panel Configurator' software is used to configure the fire control panel. All customer texts as well as individual devices and output controllers can be adapted with the 'FC360 Panel Configurator' software.
- Monitoring of the detector line for short-circuit and open line:
  - Precise identification of the error location is possible.
  - None of the devices on the detector line are lost in the event of a short-circuit on the loop.
- Up to 2000 events can be called up according to various criteria.
- Changeover to summer time and winter time is automatic.
- Individual customer text per device containing up to 18 characters
- The 'Manned'/'Unmanned' operation modes can be selected.
- The fire control panel has an integrated service reminder.

Use

FC360 is ideal for smaller fire detection installations such as those in the following buildings:

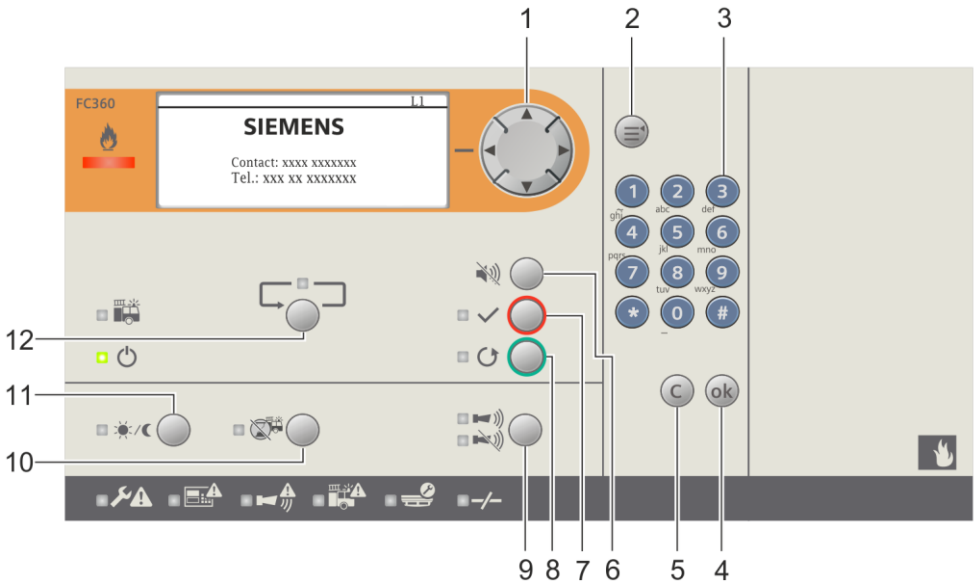
- Workshops
- Hotels
- Schools
- Shops
- Residential homes
- Nursing homes

Display and operating unit

The following components are located on the operating unit:

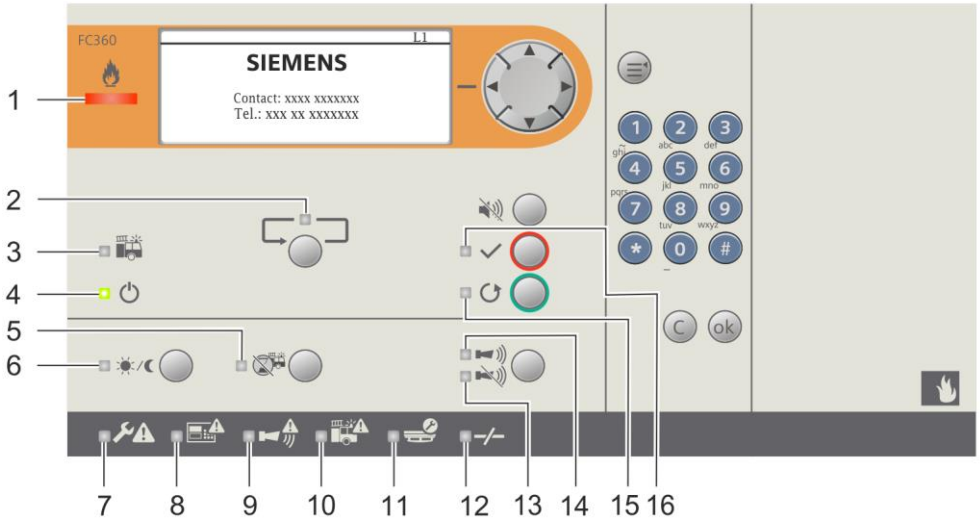
- The electronic components for the operating unit
- Optional:
  - Key switch (standard or Nordic)
  - LED indicator (32 zones)
  - Evacuation module (NL)

Buttons:



No.	Designation
1	Navigation button
2	Menu button
3	Keypad for entering numeric and alphanumeric texts
4	OK button (to confirm your selection)
5	C button ('Cancel')
6	Button for 'Buzzer OFF'
7	Button for 'Acknowledge' message
8	Button for 'Reset' message
9	'Mute'/'Unmute' button for alarm device control
10	Button for 'Alarm delay OFF'
11	Button for 'Manned'/'Unmanned' operation modes
12	Button for scrolling through alarm messages

LED indicators:



No.	Description	Color	Status	Function
1	Alarm	Red	On	The panel is in 'Alarm' condition.
2	More alarm	Red	Flashing	More than two alarm events happen.
3	Fire brigade	Red	On	Depends on the configuration: Option 1: Fire brigade was called. Option 2: RT Fire output relay is activated. Call the fire brigade.
4	System on	Green	On	The panel is in operation.
5	Alarm delay off	Yellow	Flashing	The panel is in investigation time of AVC process.
6	Manned or Unmanned	Yellow	On	The panel is in 'Manned' operation.
			Off	The panel is in 'Unmanned' operation.
7	General fault	Yellow	On	Indicates any fault event in the system.
8	System fault	Yellow	On	Indicates CPU failure.
9	Sounder line and alarm device fault	Yellow	On	All alarm devices are disabled.
			Flashing	• One or more alarm devices are in fault. • Sounder circuits are in fault.
10	RT Fire fault	Yellow	On	All RT Fire devices are disabled.
			Flashing	One or more RT Fire devices are in fault.
11	Test condition	Yellow	On	Indicates one or more devices are in test mode.
12	Isolation	Yellow	On	Indicates there are isolation events.
13	Silence	Red	On	At least one alarm device is silenced.

No.	Description	Color	Status	Function
14	Resound	Red	On	At least one alarm device is activated.
15	Reset	Yellow	Flashing	There are acknowledged events awaiting reset.
16	Acknowledge	Yellow	Flashing	● There are alarm/fault events awaiting acknowledgment. ● Devices of Technical and/or Tech. latched types are activated.

Mainboard

The following components are located on the mainboard:

- A slot for the RS232 or RS485 module
- CPU module
- An Ethernet port
- The connection terminals for the C-NET detector line
- Two monitored collective horn lines
- Three freely configurable relays (remote transmission – fire – fault, fire control)
- Four freely programmable control inputs/outputs
- One DC 24 V voltage output

Optional:

- Output module (4M) equipped with 4 monitored freely configurable outputs for sounder line, fire control, and transmission path for alarm or fault

Power supply 70 W

- The power supply feeds the hardware and charges the batteries.

Emergency power supply

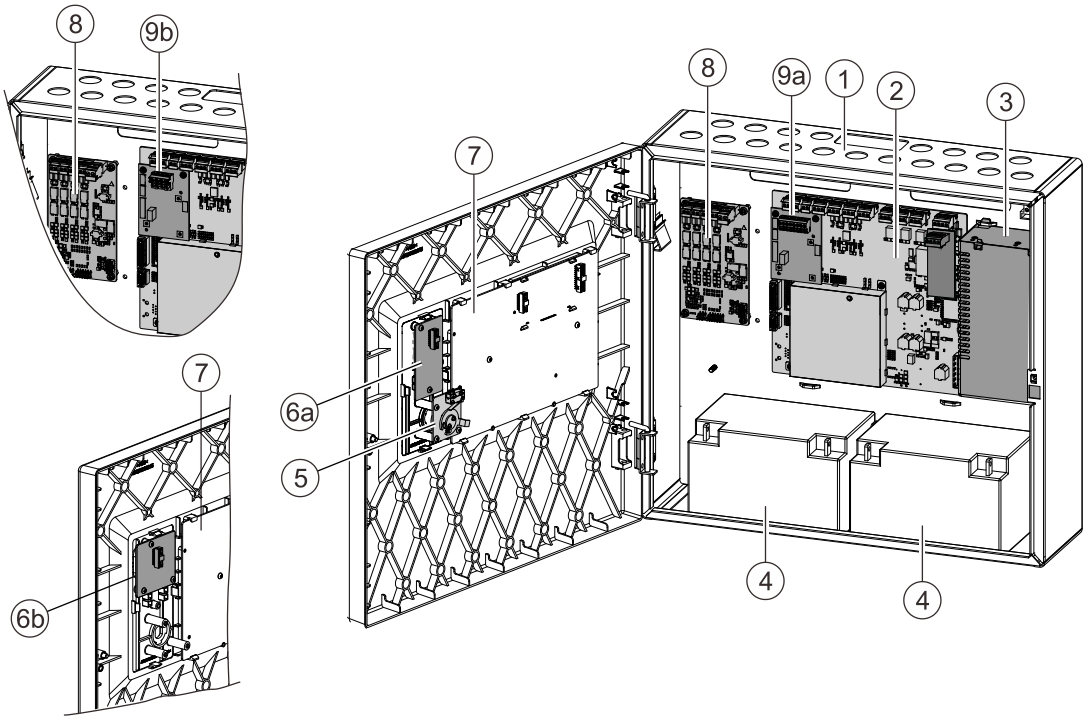
- In the event of a power cut, the batteries provide emergency current for up to 72 hours.

Configuration

- Customer-specific adaptations to the system can be made with the integrated ‘FC360 Panel Configurator’.

Design

Configuration



Item	Designation	Type	Notes
1	Housing	–	Items 1-3 and item 7: Basic equipment for each FC360
2	Mainboard	FC361-xx: FCM3601-Z1[1] FC362-xx: FCM3601-Z2[2]	
3	Power supply (70 W)	FP2015-A1	
4	Batteries	FA200x-A1	2x 12 V
5	Key switch	FCA3601-Z1	Optional[3], for access authorization for operation
	Key switch (Nordic)	FCA3603-Z1	
6a	LED indicator (32 zones)	FTO3603-Z1	Optional[4]
6b	Evacuation module (NL)	FTO3601-H1	Optional[4]
7	PMI	–	Basic equipment
8	Output module (4M)	FCA3602-Z1	Optional
9a	RS232 module (isolated)	FCA2001-A1	Optional[5]
9b	RS485 module (isolated)	FCA2002-A1	Optional[5]

[1] Supports connection with one loop or two stubs with 126 devices.

[2] Supports connection with two loops or four stubs with 252 devices.

[3] Not in conjunction with the evacuation module (NL)

[4] Either LED indicator (32 zones) or evacuation module (NL): The LED indicator (32 zones) and the evacuation module (NL) cannot be installed simultaneously.

[5] Either RS232 module or RS485 module.

Type overview

Fire control panels FC361-xx (1 loop)

Type	Order number	Designation
FC361-ZZ	S54433-C112-A1	Fire control panel (1L, Comp.)
FC361-ZA	S54433-C111-A1	Fire control panel (1L, Comf.)

FC361-ZZ	FC361-ZA
Battery: Max. 2x 12 V, 12 Ah Without integrated LED indicator for 32 zones	Battery: Max. 2x 12 V, 25 Ah Without integrated LED indicator for 32 zones
	

Fire control panels FC362-xx (2 loops)

Type	Order number	Designation
FC362-ZZ	S54433-C119-A1	Fire control panel (2L, Comp.)
FC362-ZA	S54433-C120-A1	Fire control panel (2L, Comf.)

FC362-ZZ	FC362-ZA
Battery: Max. 2x 12 V, 12 Ah Without integrated LED indicator for 32 zones	Battery: Max. 2x 12 V, 25 Ah Without integrated LED indicator for 32 zones
	

Extensions

Type	Order number	Designation
FTO3603-Z1	S54433-B118-A1	LED indicator (32 zones)
FCA3601-Z1	S54433-N113-A1	Key switch
FCA3603-Z1	S54433-N115-A1	Key switch (Nordic)
FTO3601-H1	S54433-B116-A1	Evacuation module (NL)
FCA2001-A1	A5Q00005327	RS232 module (isolated)
FCA2002-A1	A5Q00009923	RS485 module (isolated)
FCA3602-Z1	S54433-A114-A1	Output card (4M)
FCA1209-Z1	S54400-B124-A1	Output module (230 V)

Auxiliary power supply

Type	Order number	Designation
FP120-Z1	S54400-S122-A1	Power supply kit A 70 W

Batteries

Type	Order number	Designation
FA2003-A1	A5Q00019353	Battery (12 V, 7 Ah, VdS)
FA2004-A1	A5Q00019354	Battery (12 V, 12 Ah, VdS)
BAT12-25	S54302-Z102-A1	Battery (12 V, 25 Ah, VdS)

External printer

Type	Order number	Designation
DL3750+	A5Q00023962	Matrix printer (external)
–	A5Q00023963	Color ribbon for matrix printer DL3750+

Spare parts

Type	Order number	Designation
FP2015-A1	S54400-B121-A1	Power supply (70 W)
FCM3601-Z1	S54443-A115-A1	Mainboard
FCM3601-Z2	S54443-A116-A1	Mainboard (2L)
FHD3601-Z1	S54443-B118-A1	Door incl. PMI

Mounting accessories

Type	Order number	Designation
FHA3602-Z1	S54433-N118-A1	Semi-flush mount bezel

Tools

Type	Order number/Document ID	Comment
FC360 Panel Configurator	–	Scope of supply for FC360 fire control panels
FC360 Desktop Editor 3.0		
FC360 Cerberus FIT Quantities tool	A6V10885143	–

Product documentation

Document ID	Name
008250	Operation manual FDUL221 line tester
A6V10210416	FS720 Fire Detection System, Commissioning, Maintenance, Troubleshooting
A6V10421797	Operation manual (short), Fire control panel FC360
A6V10878675	Operation manual (short) with EVAC, Fire control panel FC360
A6V10421795	Technical manual, Fire control panel FC360
A6V10450595	Operation manual for configuration tools, Fire control panel FC360
A6V10450593	Mounting instructions, FCM3601-Z1 and FCM3601-Z2
A6V10421792	Mounting instructions, Fire control panel FC360
A6V10431013	Mounting instructions, FCA3601-Z1 / FCA3603-Z1 key switch
A6V10431015	Mounting instructions, FCA3602-Z1 output card (4M)
A6V10893024	Mounting instructions, FHA3602-Z1 semi flush mount bezel

Document ID	Name
A6V10450591	Mounting instructions, FHD3601-Z1 door incl. PMI
A6V10431009	Mounting instructions, FTO3601-H1 evacuation module (NL)
A6V11777319	Mounting instructions, FTO3603-Z1 LED indicator (32 zones)
A6V10885143	Quantities tool, Fire control panel FC360
A6V10882301	List of compatibility, Fire control panel FC360
A6V12080979	Cybersecurity Guidelines, Fire control panel FC360

Related documents such as the environmental declarations, declarations of conformity, etc., can be downloaded from the following Internet address:
www.siemens.com/bt/download

Contact Siemens if a document is unavailable in http://siemens.com/bt/download.

Notes

Disposal



The device is considered an electronic device for disposal in accordance with European Directive and may not be disposed of as domestic waste.

- Use only designated channels for disposing the devices.
- Comply with all local and currently applicable laws and regulations.
- Dispose of empty batteries at designated collection points.

⚠ WARNING



Connecting batteries in parallel

Risk of explosion and fire

- Never switch batteries in parallel.
- If you need more power, you must use batteries with a higher capacity.

Technical data

General data		
Number of detector lines ● Loops or ● Stub lines Number of addressable devices per loop Number of addressable devices per stub	**FC361-xx** Max. 1 Max. 2 Max. 126 Max. 32	**FC362-xx** Max. 2 Max. 4 Max. 126 Max. 32
Operating unit	Integrated	
Dimensions (W x H x D) ● FC361-ZZ/FC362-ZZ ● FC361-ZA/FC362-ZA	 402 x 372 x 132 mm 402 x 372 x 211 mm	
Color: ● Housing / cover cap	 ~RAL 7035, light gray	

Inputs/outputs	
Integrated inputs/outputs ● Outputs for horn ● Relay outputs for fire control and transmission paths for alarm and fault	 2 3
Freely configurable inputs/outputs	4
Options: Output module (4M) with 4 monitored outputs for sounder line, fire control, and transmission path for alarm or fault	1

Connections	
Slot for serial interface RS232 or RS485	Max. 1 ● RS232 module for event printer ● RS485 module for ESPA interface [NL] or DMS
Ethernet port RJ45	Max. 1
LED indication	Max. 1
Key switch (standard)	Max. 1
Key switch [Nordic]	Max. 1
Evacuation module [NL]	Max. 1

Connections	
Output card (4M)	Max. 1
Connectable detector series	Cerberus™ FIT (C-NET) and Cerberus™ PRO (C-NET) according to 'List of compatibility'. See Product documentation [► 11] section
External printer DL3750+	Connection via RS232 interface

Performance data	
Mains voltage	AC 97...127 V AC 196...253 V
Power supply	70 W
Operating voltage	DC 20.5...28.6 V
Operating current	Max. 2.5 A
Battery capacity	Max. 2x 12 V, 12 Ah (FC361-ZZ, FC362-ZZ) Max. 2x 12 V, 25 Ah (FC361-ZA, FC362-ZA)
Battery bridging time	Up to 72 h
Battery monitoring	Yes
Mains supervision	Yes

Ambient conditions and protection category	
Operating temperature	-5...+40 °C
Storage temperature	-20…+60 °C
Air humidity (no condensation permitted)	≤95 % rel.
Protection category (IEC 60529)	IP30

Standards and approvals	
Standards	EN 54-2, EN 54-4, EN 54-13
Approvals: ● LPCB for FC361-xx ● LPCB for FC362-xx	 531q/03 531q/04

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