SIEMENS
Ingenuity for life

"We are the trusted technology partner for energy-efficient, safe and secure buildings and infrastructure."

Our world is undergoing changes that force us to think in new ways: demographic change, urbanization, global warming and resource shortages. Maximum efficiency has top priority – and not only where energy is concerned. In addition, we need to increase comfort for the well-being of users. Also, our need for safety and security is constantly growing. For our customers, success is defined by how well they manage these challenges. Siemens has the answers.

Cerberus FIT FC360 – addressable fire control panels

The compact panels
– Housing: 402x372x132 mm
– Batteries: max. 2x 12 Ah
– FC361-YZ with LED indicator (16 zones)

The comfort panels
– Housing: 402x372x211 mm
– Batteries: max. 2x 25 Ah
– FC361-YA with LED indicator (16 zones)

Shared properties
– Total current capacity: max. 2.5 A
– 1 loop or 2 stubs
– Number of addresses: max. 126
– 4 programmable inputs/outputs
  (DC 24 V/max. 0.1 A and 0.2 A in total)
– 3 programmable potential-free relay outputs
  (DC 60 V/max. 2.0 A)
– 2 collective sounder circuits (DC 24 V/max. 0.5 A)
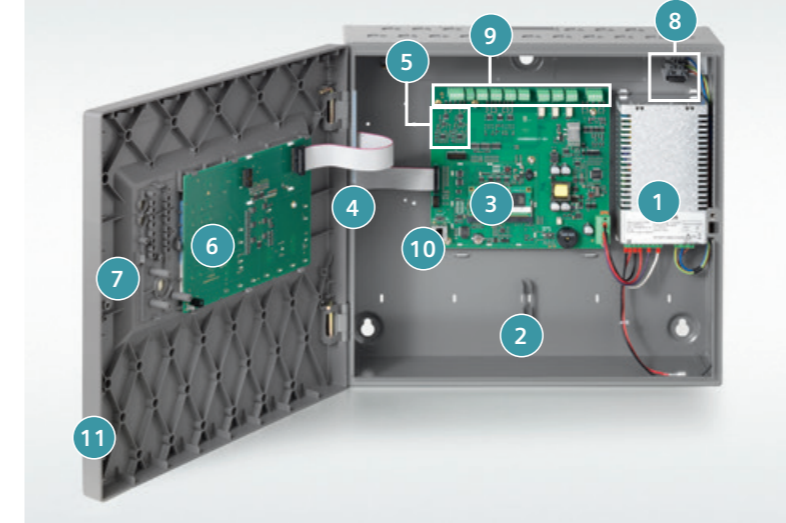– Auxiliary power output (DC 24 V/max. 0.2 A)

FC361-ZZ Order no.: S54433-C112-A1	**FC361-YZ** Order no.: S54433-C110-A1
FC361-ZA Order no.: S54433-C111-A1	**FC361-YA** Order no.: S54433-C109-A1

Options

LED indicator (16 zones)
FTO3602-Z1
– Visual fire zone indication
– Up to 16 fire zones
Order no.: S54433-B117-A1

Evacuation module (NL)
FTO3601-H1
– Special option for The Netherlands
– Independent control of EVAC zone
– Acc. NEN 2575
Order no.: S54433-B116-A1

Key switch
FCA3601-Z1
– Standard key switch to provide level 2 (user) access on panel
Order no.: S54433-N113-A1

Key switch (Nordic)
FCA3603-Z1
– Special key switch (Nordic) to provide level 2 (user) access on panel
Order no.: S54433-N115-A1

Control unit

Hardware components

Legend
1 Power supply
2 Space for batteries
3 Mainboard
4 Output card (4M) (optional)
5 Space for RS232/485 module (optional)
6 User interface (PMI)
7 Space for options:
  – Evacuation module (NL)
  – LED indicator (16 zones)
  – Key switch/key switch (Nordic)
8 Mains fuse
9 Main board connectors:
  – 2 collective sounder circuits
  – 24 V auxiliary outputs
  – 4 programmable inputs/outputs
  – 3 programmable relay outputs
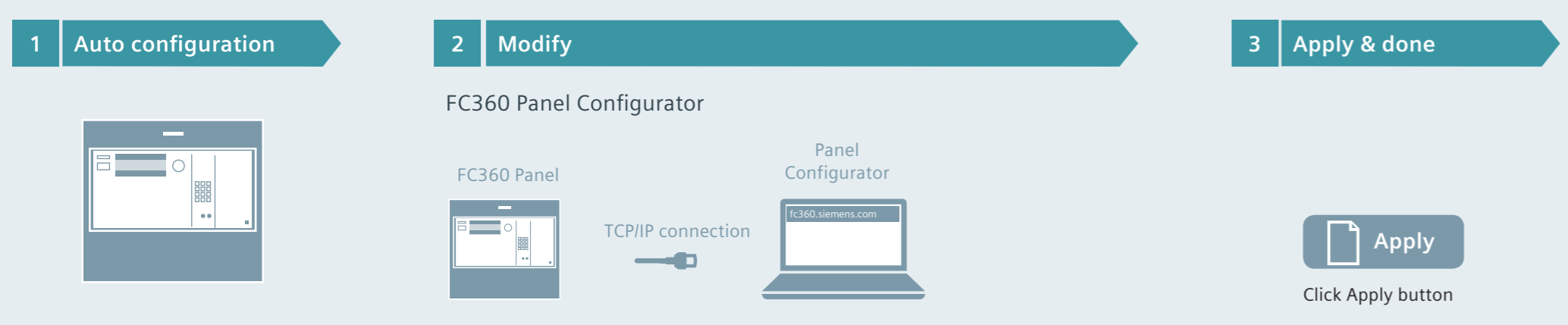 – Loop connector
10 Ethernet connector
11 Detouchable door

Output card (4M)
FCA3602-Z1
– 4 configurable monitored outputs (DC 24 V)
– Output current per output: 1.0 A
– Max. current of output card: 2.0 A
Order no.: S54433-A114-A1

Note: Unit can be powered from the integral power supply or from an additional external power supply.

RS232 module (isolated)
FCA2001-A1
– Communication module for peripheral devices with RS232 interface (e.g. event printer DL3750+)
Order no.: A5Q00005327

RS485 module (isolated)
FCA2002-A1
– Communication module for peripheral devices with RS485 interface
Order no.: A5Q00009923

Output module (230 V) FCA1209-Z1
– 1 output with potential-free relay contacts
– Control of fire ventilation, air conditioning, elevators, doors, control installations, etc.
– Operating current (quiescent): max. 0.1 mA
– Relay output (ohm): AC 230 V, max. 5 A/DC 30 V, max. 5 A
Order no.: S54400-B124-A1

Housing
FDCH221
IP65
Order no.: S54312-F3-A1

FC360 Panel Configurator (online)

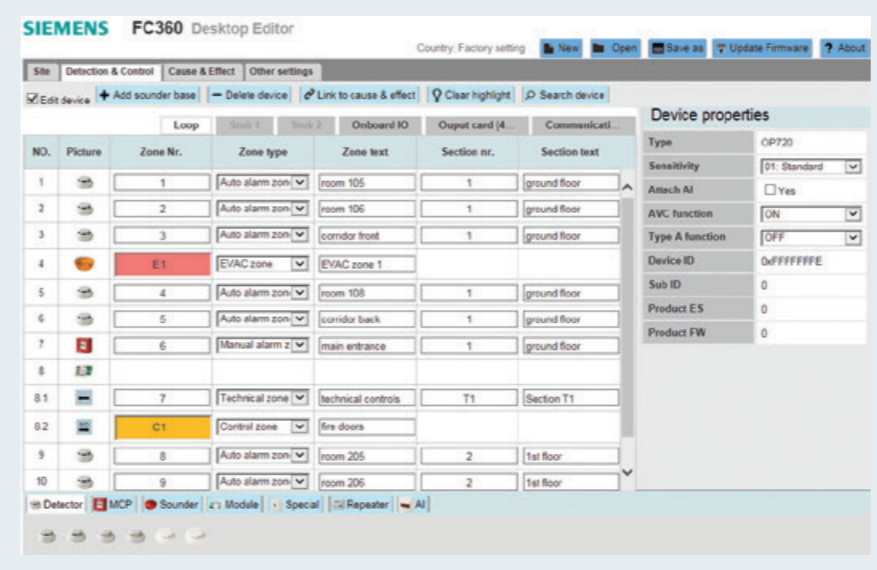## Panel configuration in three easy steps.

The online tool is used to configure the panel on site. The panel has an integrated Web server that can be accessed with a Web browser. No additional software is needed. The TCP/IP connection to the panel is established via the Web address fc360.siemens.com.

1 Auto configuration

2 Modify

FC360 Panel Configurator

FC360 Panel — TCP/IP connection — Panel Configurator (fc360.siemens.com)

Modify configuration online at the site with the FC360 Panel Configurator

3 Apply & done

Apply

Click Apply button

– Data from all connected detectors and peripheral devices are automatically configured
– Devices are automatically assigned to zones
– Instant fire protection during the construction phase

Highlights
• No additional software required
• Direct and instant programming on site
• Clear and easy-to-understand cause-and-effect matrix
• Configuration file can be backed up on PC

Detection and control view

The FC360 configuration tool is simple to understand and use. The connected devices are listed in a table in their order of wiring, allowing the user to easily visualize the devices as installed.

Outputs and sounders can be assigned into one of 16 control or evacuation zones and an appropriate description text (e.g. "door release") can be added for more clarity.

Cause and effect matrix

Most systems require all alarming devices and control outputs to operate with any fire. This operation is available by default. Where more complex controls are required, the FC360's unique cause-and-effect matrix makes any required changes easy and logical.

FC360 Desktop Editor (offline)

The FC360 Desktop Editor is a tool for viewing the system's configuration offline as well as making text or cause-and-effect changes.

In addition, the tool provides installers with self-learning opportunities where they can create their own "virtual" system. This quickly builds solid expertise and experience and reduces training costs and effort.

Highlights
• Offline view of configuration
• Modification of customer texts and cause and effect
• Self-learning opportunities by creating a virtual set up

Download the FC360 Desktop Editor

Cerberus FIT FC360 – compatible C-NET devices

Shared properties
- Total current capacity: max. 2.5 A
- 1 loop or 2 stubs
- Number of addresses: max. 126
- 4 programmable inputs/outputs
  (DC 24 V/max. 0.1 A and 0.2 A in total)
- 3 programmable potential-free relay outputs
  (DC 60 V/max. 2.0 A)
- 2 collective sounder circuits (DC 24 V/max. 0.5 A)
- Auxiliary power output (DC 24 V/max. 0.2 A)

Cerberus PRO fire detectors

Sounder base DBS720
Sound level: 88 dBA/1 m
Order no.: S54319-F5-A1

or

Detector base DB721
– Screw clamp terminals
Order no.: S54319-F11-A1

or

Detector base DB722
– Screwless terminals
– Integrated rubber seal
Order no.: S54319-F19-A1

Flame detector base FDFB291
Order no.: A5Q00003310

Linear smoke detector base FDLB291
Order no.: A5Q00003941

Flame detector FDF241-9
– For inside and outside applications
– Three infrared sensors
Order no.: A5Q00003006

Linear smoke detector FDL241-9
Order no.: A5Q00002298

Detector base DB721
Order no.: S54319-F11-A1

ASA neural fire detector OOH740
Order no.: S54320-F7-A3

Air sampling smoke detection kit FDBZ290
Order no.: S54319-S32-A1

Conventional line
1 collective or conventional detector line
Conventional detectors

Floor repeater terminal FT2010-A1
Order no.: A5Q00014104

Fire control panel FC361-ZZ
Order no.: S54433-C112-A1
Fire control panel FC361-YZ
Order no.: S54433-C110-A1
Fire control panel FC361-ZA
Order no.: S54433-C111-A1
Fire control panel FC361-YA
Order no.: S54433-C109-A1

Floor repeater display FT2011-A1
Order no.: A5Q00017706

Shared properties FT2010 and FT2011:
– Backlit display with plain text (6 lines of 40 characters each)
– Power supply and communication (individual addressed) via C-NET, additional DC 24 V feed possible
– 207x282x79 mm (HxWxD)
– Max. 3 FT2010/FT2011 per FC361

ASA neural fire detector OOH740
Two optical sensors, two heat sensors, three parameter sets
Order no.: S54320-F7-A3

ASA neural fire and CO detector OOHC740
Two optical sensors, two heat sensors, one carbon monoxide sensor, three parameter sets
Order no.: S54320-F8-A3

Multi-sensor fire detector OH720
Combined optical and thermal sensors, two parameter sets
Order no.: S54310-F2-A1

Smoke detector OP720
Two parameter sets
Order no.: S54310-F1-A1

Heat detector HI720 (max)
One parameter set (static)
Order no.: S54310-F3-A1

Heat detector HI720 (max + RoR)
Two parameter sets (rate of rise and static)
Order no.: S54310-F4-A1

Long-distance reflector DLR1191 (Prism)
For distances between 20 and 100 meters
Order no.: BPZ:4787710001

Zone module FDCI723
Order no.: S54400-B124-A1

Output module (230 V) FCA1209-Z1
The output module is directly connected with the monitored output line and provides one potential-free contact. This output module controls ventilation, air conditioning, elevators, etc.
Order no.: S54400-B124-A1

Power supply FP120
Order no.: S54400-S122-A1

Housing FDCH221
IP65
Order no.: S54312-F3-A1

Input/output module FDCIO221
– 1 monitored input
Relay outputs:
– 1 output
– Relay output DC 30 V/2 A rated
– Can be configured as monitored, but a separate DC 24 V power supply is required
Order no.: S54312-F2-A1

Input module FDCI221
– 1 monitored input
Order no.: S54312-F1-A1

Input/output module FDCIO222
– 4 monitored inputs
Relay outputs:
– 4 potential-free working/rest contacts
Contact loading:
– AC 250 V/4 A
– DC 30 V/4 A
Order no.: A5Q00002369

Input module FDCI222
– 4 monitored inputs
Order no.: A5Q00001984

Input/output module FDCIO224
With approval on VdS extinguishing interface
– 4 monitored inputs
Relay outputs:
– 4 potential-free working/rest contacts
Contact loading:
– AC 250 V/4 A
– DC 30 V/4 A
Order no.: A5Q00002369

4 isolated control inputs
4 isolated control outputs
4 isolated control inputs

C-NET

The C-NET is a modern, multi-purpose bus system. It allows rapid, fail-safe communication between the Cerberus FIT/PRO bus elements and the fire control panel.

Characteristics:
– Uses all cable types (shielded or unshielded)
– Integrates star-shaped cable networks without modifications to cable network
– Acoustic and visual signaling on the loop
– Up to 126 bus elements on one loop
– Cable lengths up to 3.3 km
– 2-wire loop
– Integrated isolator in every loop participant

Alarm equipment (audible/visible)

Detector base DB721
– Screw clamp terminals
Order no.: S54319-F11-A1

or

Detector base DB722
– Screwless terminals
– Integrated rubber seal
Order no.: S54319-F19-A1

Sounder base FDB221
Order no.: A5Q00001664

Sounder base flat FDB222
Order no.: S54319-F1-A1

or

Manual call points and accessories

Manual call point FDM221
Standard, available in different colors

Manual call point FDM225
Resettable, available in red, and can be used for flush mounting

Manual call point FDM226
Resettable and IP66, available in red

Manual call point FDM231-RP
Standard, available in red

Manual call point FDM224
IP44 or IP64, with direct operation, available in different colors

Manual call point FDM223
IP44 or IP64, with indirect alarm actuation, available in different colors

Sounder base DBS720
Sound level: 88 dBA/1 m
Order no.: S54319-F5-A1

Sounder interbase (C-NET) DBS721
Sound level: 89 dBA/1 m
Order no.: S54372-F13-A1
(Picture shows product with blanking plate BPZ20)

Sounder interbase with supplementary optical indication (C-NET) DBS729
Sound level: 89 dBA/1 m
Color: Red flash color
Order no.: S54372-F14-A1

Sounder beacon interbase DBS728
Sound level: 93 dBA/1 m
Beacon setting: O-1.5-2.4 and C-3-5
Color: white flash color
Order no: S54372-F14-B1

Alarm sounder FDS221-W
Sound level: 99 dBA/1 m
Order no.: A5Q00006711

Shared characteristics:
– 11 different tones, incl. "Evacuate" as specified in DIN 33404-3
– Different volume and sound programmable for prealarm and main alarm
– Loop-powered

Alarm sounder FDS221-R
Sound level: 99 dBA/1 m
Order no.: A5Q00004117

Alarm sounder with supplementary optical indication FDS229-R
Sound level: 99 dBA/1 m
Color: Red flash color
Order no.: A5Q00023093

Alarm sounder with supplementary optical indication FDS229-A
Sound level: 99 dBA/1 m
Color: Amber flash color
Order no.: A5Q00023092

Alarm indicator (addressable) FDCAI221
Order no.: S54370-F10-A1

Manual call point with resettable plastic element FDM225-RP
Order no.: A5Q00012020

Manual call point with resettable plastic element incl. back box FDM226-RP
Order no.: A5Q00013436

Manual call point complete
Order no.: S54311-F11-A1

Electronic switching unit FDME221
Order no.: A5Q00002451

Housings:
Housing red with key FDMH291-R
Order no.: A5Q00002217
More color options (yellow, green and blue) are available

Manual call point with glass plate FDM225-RG
Order no.: A5Q00013434

Electronic switching unit incl. key FDMK231 FDME231
Order no.: S54311-B14-A1

Electronic switching unit FDME224
Order no.: A5Q00009392

Housings with glass and key (FDM224 and FDM223):
Housing red FDMH293-R
Order no.: A5Q00004023
More color options (yellow, green, blue and orange) are available
Housing red FDMH297-R
Order no.: S54311-B7-A1

Electronic switching unit FDME223
Order no.: A5Q00003087

Manual call point with glass plate incl. back box FDM226-RG
Order no.: A5Q00013435

Accessories:
Protective cover FDMC291
Order no.: A5Q00001644

Accessories:
Back box FDMH295-R
Order no.: A5Q00013437
Back box with holes and grommet FDMH295-S
Order no.: A5Q00013438
Protective cover FDMC295
Order no.: A5Q00013440

Accessories:
Protective cover FDMC295
Order no.: A5Q00013440

Accessories:
Back box red FDMH231-S-R
Order no.: S54311-B12-A1
Screwed cable gland M20 x 1.5
Order no.: A5Q00004478
Back nut M20
Order no.: A5Q00004479

Accessories:
(for FDM224 and FDM223):
Protection seal DMZ1197-AD
Order no.: BPZ:5470680001
Protective cover DMZ1197-AC
Order no.: BPZ:5223550001
Locking plug M20 (1 hole)
Order no.: A5Q00006735

Detector base accessories (DB721, DB722)

Detector base seal RS720
Order no.: S54319-F8-A1

Base attachment wet BA721
Order no.: S54319-F29-A1

Designation plate FDBZ291
Order no.: A5Q00002621

Detector heating FDBH291
Order no.: A5Q00004439

Detector locking device LP720
Order no.: S54319-F9-A1

Protection cage DBZ1194
Order no.: BPZ:4677110001

Base attachment BA720
Order no.: S54319-F20-A1

Sounder interbase accessories (DBS721, DBS728, DBS729 with detector base DB721 or DB722)

Interbase seal RS721
Order no.: S54319-F32-A1

Blanking plate BP720
Order no.: S54372-B12-A1

Designation plate DBZ1193A
Order no.: BPZ:4864330001

Detector locking device LP720
Order no.: S54319-F9-A1

Alarm sounder accessories (FDS221-x, FDS229-x with detector base FDB221 or FDB222)

Sealing element FDBZ295
(only with base FDB221)
Order no.: S54319-F10-A1

Base attachment FDB291
Order no.: A5Q00001603

Base attachment wet FDB295
Order no.: S54319-F21-A1

Designation plate FDBZ291
Order no.: A5Q00002621

Designation plate DBZ1193A
Order no.: BPZ:4864330001

Detector locking device FDBZ293
Order no.: A5Q00005035

Cerberus FIT FC360 – application examples

Nursing home

Hotel

Shared housing

Shops in shopping center

Small industrial site

School

Benefits at a glance
- **Increased life safety** – backed by fastest, most reliable fire detection and alarming
- **Satisfied and relaxed occupants/tenants** – never disturbed by false alarms or unnecessary evacuations
- **Compliant with legal norms and regulations** – LPCB (Loss Prevention Certification Board) approved to EN54 parts 2 and 4 as well as EN54-13 system approval
- **Low commissioning and maintenance costs** – configuration changes made easy with embedded configuration tool

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ASA parameter sets for diverse application areas

Faster fire detection with ASAtechnology
Heat detectors are needed in many areas due to the potential for false alarms. However, heat detection provides significantly less protection. The ASA neural fire detector OOH740 with its dual optical chamber design allows advanced smoke detection to be offered where others can only offer heat detection.

1. Two IR light sources
2. Dispersion of light rays by smoke particles
3. IR receiver
4. Patented labyrinth
5. Temperature sensors
6. CO sensor for OOHC740

Contact your local sales office for more information or application support.

Selectable parameter sets:

Fast Response
- Areas where speed of detection is the priority and where there are few false alarm sources
- EN 54-27-approved detection for air-handling ducts in conjunction with air sampling smoke detection FDBZ290

Balanced
- Provides a good balance between effective smoke detection and false alarm resistance
- Ideal for spaces where transitory false alarm sources are expected
- Application examples: standard hotel and nursing home bedrooms

Suppression
- Areas requiring smoke detection where a high number of false alarm sources may be expected, including steam, cooking, cigarette smoke, aerosols, welding, etc.
- Application examples: kitchens, workshops

Separate CO sensor
- Provides fire-independent detection of toxic carbon monoxide due to incomplete oxidation from exhaust gases, defective gas heating, cooking appliances or chemical and production-related processes
- Application examples: hotel garages, nursing homes, shared housing

Alarm indicator FDAI92
Order no.: S54370-F3-A1
Additional frame AI330
Order no.: BPZ:3169430001

Alarm indicator FDAI91
Order no.: S54370-F9-A1

Alarm indicator FDAI93
Order no.: S54370-F5-A1