

Designo® Fire Safety – Detectors and peripherals, perfectly connected.



Designo Fire Safety S-Line detectors with ASATechnology™

- Advanced multi-criteria fire detector utilizing optical, thermal, and optional CO sensor
- Extreme immunity to deceptive phenomena while providing enhanced detection with the industry's only No False Alarm Guarantee
- Supports Class X operation via built-in ISOtechnology
- Provide redundant optical and thermal sensors for extraordinary reliability
- Comply with NFPA 76 (Telecommunication Standard) as a Very Early Warning Fire Detector (VEWFD) as a result of high-sensitivity alarm capabilities
- Include a multi-purpose carbon monoxide (CO) life safety and fire detector

- Selectable as a multi-criteria fire detector and/or a CO life safety gas detector
- Environmentally friendly "green" detectors, as they are RoHS-compliant and replace the need for ionization detectors due to forward/backward light scattering technology
- Provide multiple selectable temperature alarm thresholds, fixed and rate-of-rise
- Provides optional supervisory temperature & CO (PPM) threshold capabilities
- Complies with UL 268 7th edition requirements



Special Detection

- Provides enhanced detection via Blue and Infrared light scattering technology
- Differentiates between deceptive phenomena and an actual fire (nuisance-alarm avoidance)
- Responds to flaming and smoldering fires as well as Lithium-Ion Battery electrolyte off-gas particle signatures
- Provides multiple selectable temperature alarm thresholds, fixed and rate-of-rise
- Interfaces with I/O modules via dry contact outputs / 4-20 mA output
- Complies with UL 268 7th edition requirements



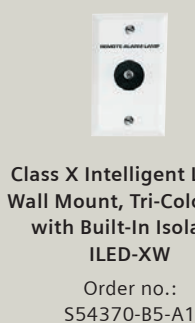
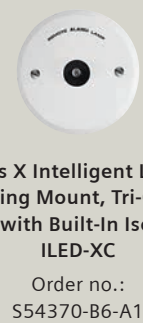
Designo Fire Safety C-Line detectors

- Solution for standard applications with average risk and moderate potential for deceptive phenomena
- Prevents false alarms thanks to intelligent algorithms
- Thermal detector provides 7 selectable alarm thresholds, fixed and rate-of-rise
- Offer wide operating temperature & relative humidity (RH) range
- "Green" detectors, as they are RoHS-compliant, meeting the standards regarding the restriction of the use of certain hazardous substances in electrical and electronic equipment
- Supports Class X operation via built-in ISOtechnology



Remote indicators

- Are connected to automatic fire detectors that are not easily accessible or visible
- Contain an indicator lamp unit with one or two LEDs which will light up when the connected detector triggers an alarm
- Supports Class X operation via built-in ISOtechnology



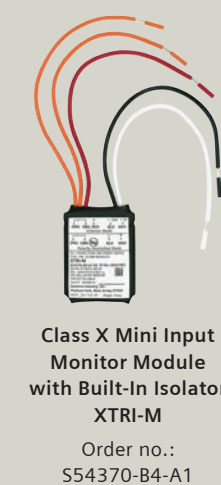
Air duct housings

- Backward compatible with H-series detector
- Same footprint as existing Siemens duct housings
- Include optional remote test feature and indicator
- New, improved features include easy installation, improved operating temperature range, and optional in-duct carbon monoxide (CO) detection
- Supports Class X SLC wiring feature with use of compatible detector



Line modules

- Intelligently connect independent, potential-free make-or-break contacts
- Can be independently configured via a fire control panel for status or alarm messages
- Input modules monitor devices responsible for alarm inputs and confirm signals or technical states etc.
- Class X series I/O have built-in isolation (replaces the need for HLMSs)
- Output modules control other equipment, such as door holders, fire dampers, smoke control systems, plant shutdown etc.
- FDCIO422 provides 4 in / 4 out with Class A wiring and AC rated contacts
- TSM-1X is self contained I/O modules, T-45 test switch and status indicator with built-in isolation



Note: Contact Siemens Tech Support for compatible panels.

Manual pull stations and accessories

- Are for immediate manual actuation of a fire alarm or an extinguishing process
- Direct alarm actuation by pulling down locking lever
- For indoor and outdoor applications
- For surface- and recess-mounted feed lines in easily accessible places
- For Canada, choose dual action Single Stage, XMS-DA (order no.: S54321-F13-A1) or dual action 2-Stage, XMS-2S (order no.: S54321-F14-A1)
- All manual stations have built-in Class X



Designo Fire Safety: innovation based on trusted experience

Designo Fire Safety is a comprehensive fire safety system for fast, reliable fire detection, as well as alarm signaling and control. It is designed to protect lives and assets and to prevent production losses, thereby safeguarding your company's buildings and survival. Designo not only defines the technological state of the art, but also offers a high level of flexibility and scalability, as well as compatibility with existing and future products.

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The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

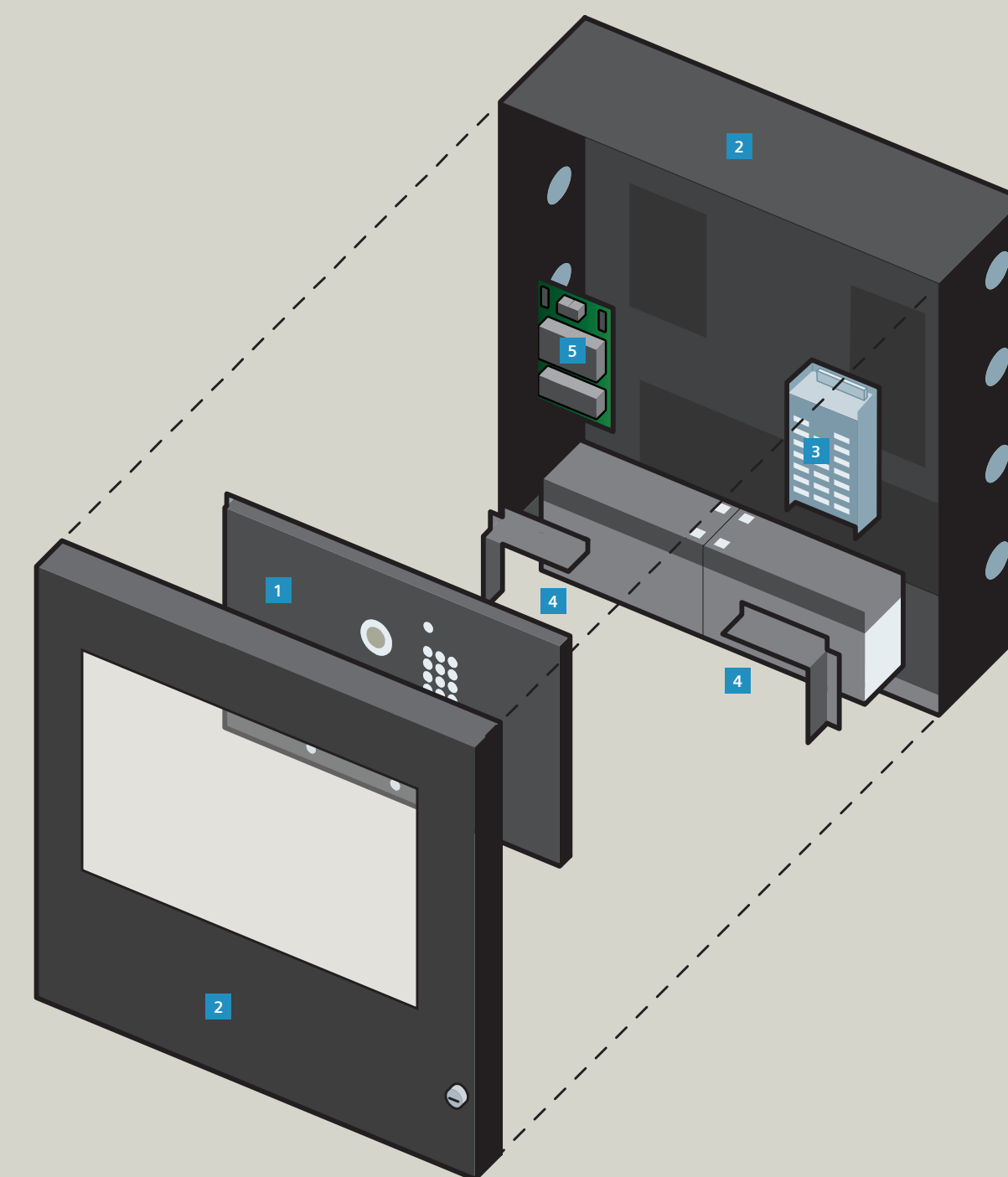
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Designo® Fire Safety 50 Point and Compact Systems Planning Tool

usa.siemens.com/designo-fire-safety

SIEMENS

FC2005 stand-alone control panel



- 1 Main board and operator unit**
– FCM901-U2
– FCM901-L2 (for Canada)
- 2 Housing**
– With back box, door, window
– FH901-U2 black
– FH901-R2 red
- 3 Power supply**
– FP2011-U1
– 170 W, 24 VDC
- 4 Battery bracket**
– FHA901-U1
- 5 City tie**
– FCJ2020-U1
– FCA901-U1 (cable)

Housings FC2005

- Housing FH901-U2
– Black
Order no.: S54433-B103-A1
- Housing FH901-R2
– Red
Order no.: S54433-B103-A2
- Trim kit FHA902-U1
– Black
Order no.: S54433-B106-A1
- Trim kit FHA902-R1
– Red
Order no.: S54433-B106-A2
- Universal Enclosure FTH2073-UA
– For Annun.
Order no.: S54433-A6-A1
- Battery Housing FH2072-UA
– For 18Ah batteries
Order no.: S54433-A5-A1

Expansion options FC2005

- Leased line/city tie module FCJ2020-U1
– Same as FC2025/FC2050
– Requires separate Leased Line/City Tie Cable
Order no.: S54400-A57-A1
- Leased Line/city tie cable FCA901-U1
– Required for use with FCJ2020-U1 with FC2005
Order no.: S54433-C106-A1
- Battery bracket FHA901-U1
– Secures batteries to meet seismic requirements
Order no.: S54433-B107-A1
- Remote peripheral module FCA2018-U1
– Interface to remote printers
Order no.: S54400-A65-A1
- PAL-1
– UL listed parallel printer
Order no.: 500-692407
- PAD-5 main board
– Addressable NAC expander
Order no.: S54339-A17-A1
- PAD-5-CDC
– PAD-5 address NAC expansion card
– Conventional Detectors Card
Order no.: S54339-A7-A1
- PAD-5-CLSA
– PAD-5 address NAC expansion card
– NAC and Releasing
Order no.: S54339-A6-A1

System operating units FC2005

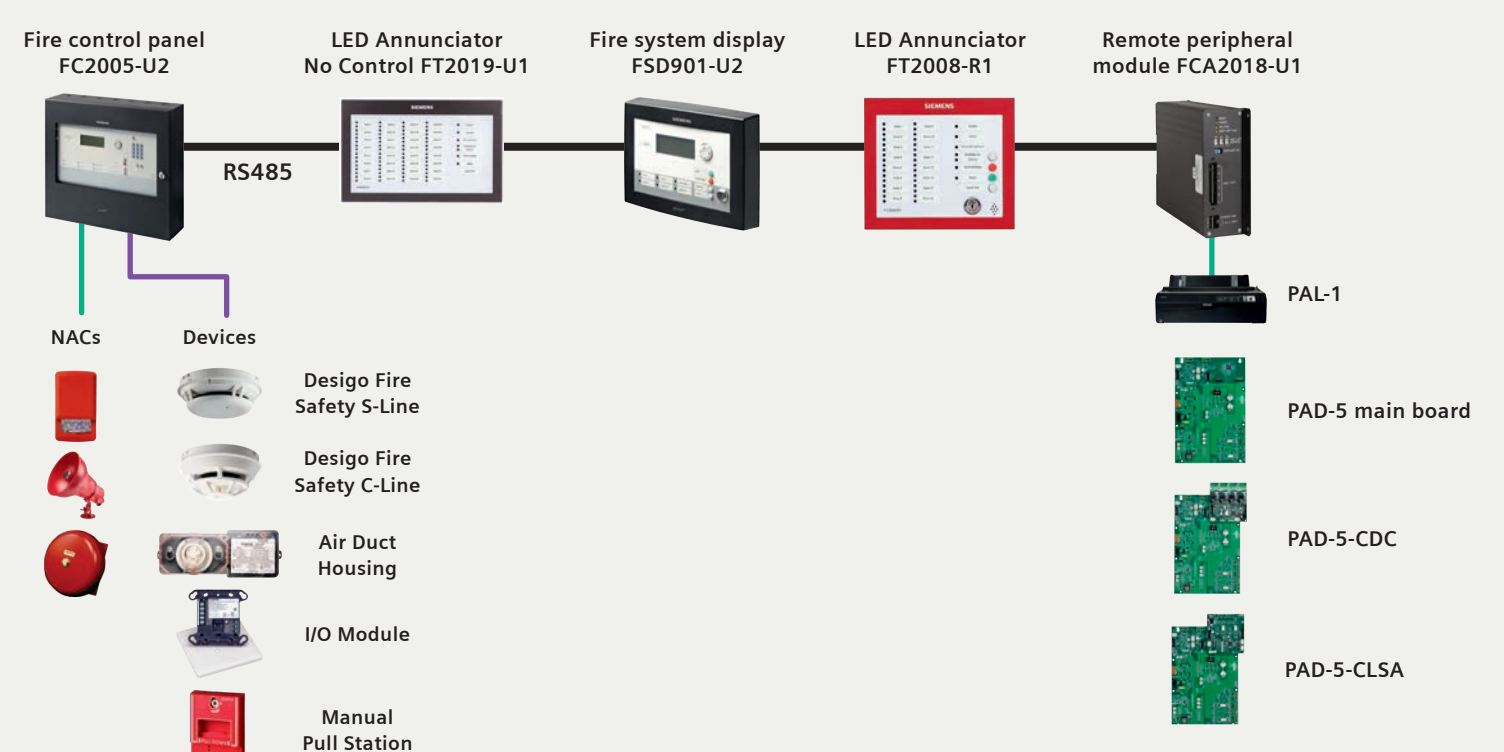
- Main board and operator unit FCM901-U2 (FCM901-L2 for Canada)
– Interface options for loops, NACs, relays, aux. power, communication bus, city tie/leased line module
– System LCD display, LEDs, control buttons
– Built-in on-board DACT
Order no.: S54433-B100-A1
Order no.: S54433-A7-A1 (for Canada)

Other – Power Supply, Annunciators

- Power supply (170 W) FP2011-U1
– Incl. connection cable
Order no.: 500-450222
- FT2008-U1/R1 (with control)
U1: Order no.: S54400-A143-A1
R1: Order no.: S54400-A144-A1
- FT2018-U1/R1 (without control)
U1: Order no.: S54433-A1-A1
R1: Order no.: S54433-A2-A1
- FT2009-U1/R1 (with control)
U1: Order no.: S54400-A145-A1
R1: Order no.: S54400-A146-A1
- FT2019-U1/R1 (without control)
U1: Order no.: S54433-A3-A1
R1: Order no.: S54433-A4-A1
- Fire System Display FSD901
U3: Order no.: S54433-C102-A1
R3: Order no.: S54433-C102-A2

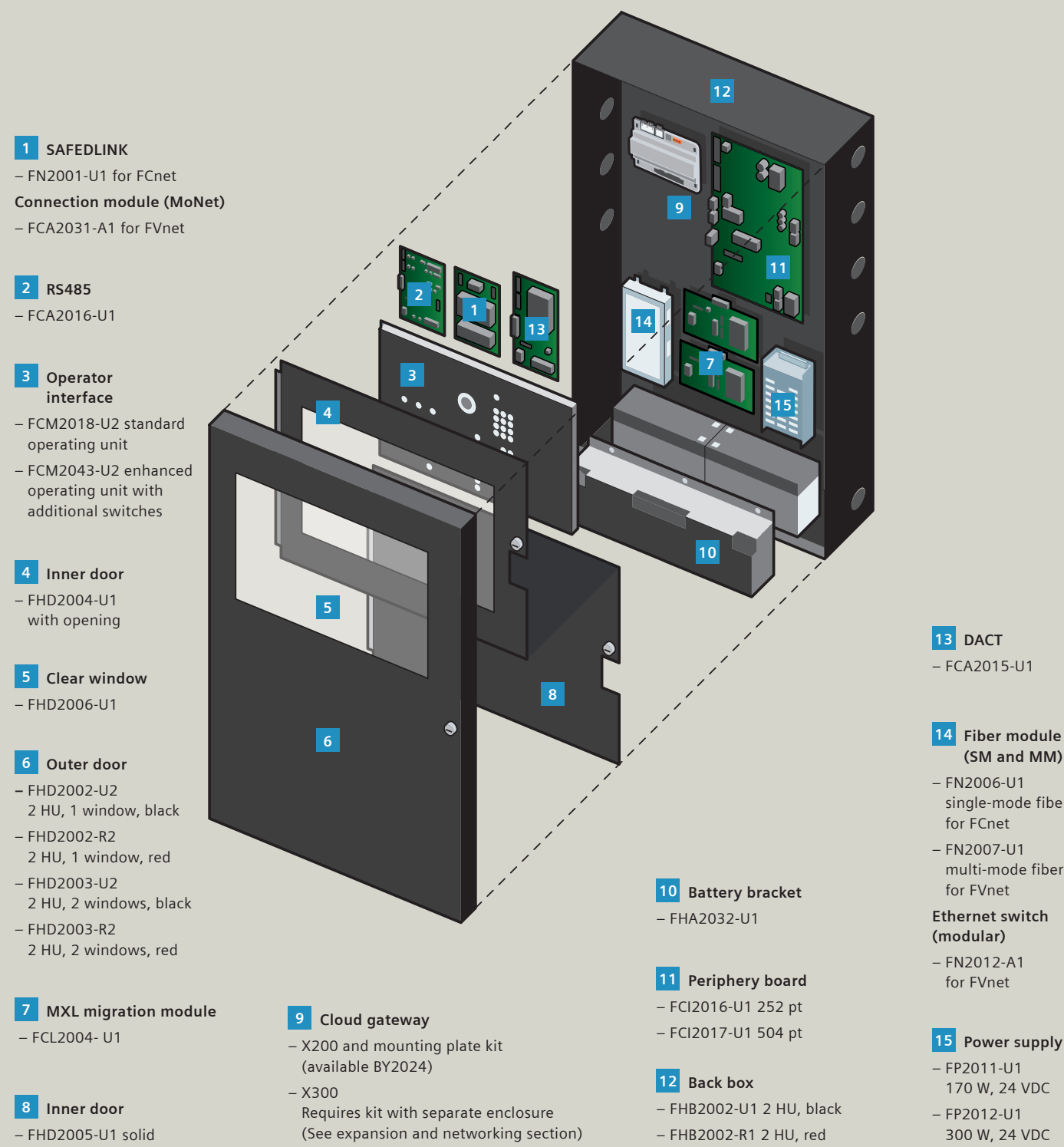
Note: U3 indicates black enclosure & R3 indicates red enclosure for both FSDs and FTs

FC2005 system overview

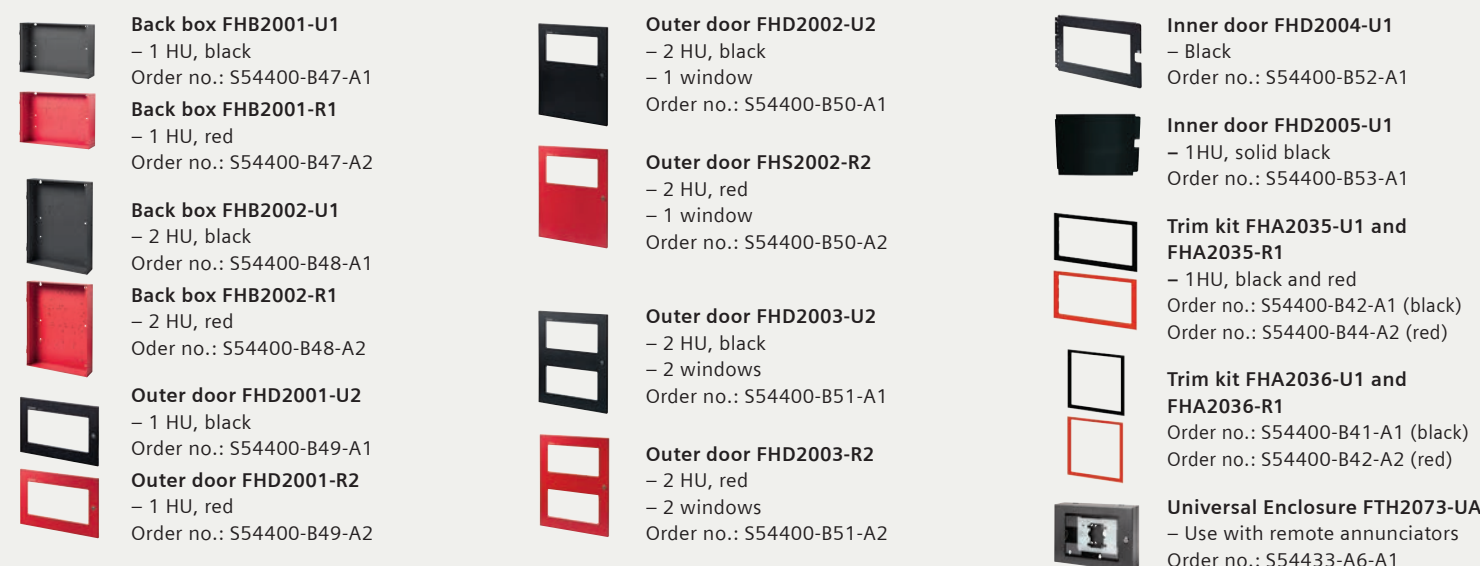


Desigo® Fire Safety control panels – design and possibilities

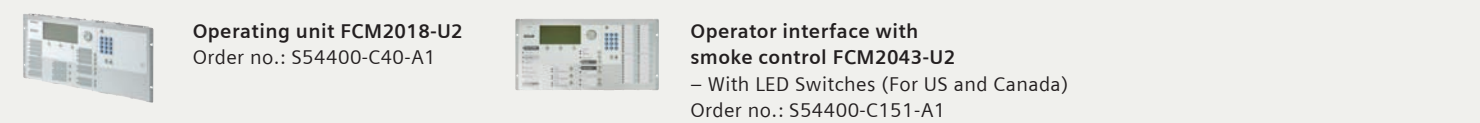
FC2025/FC2050 networkable control panels



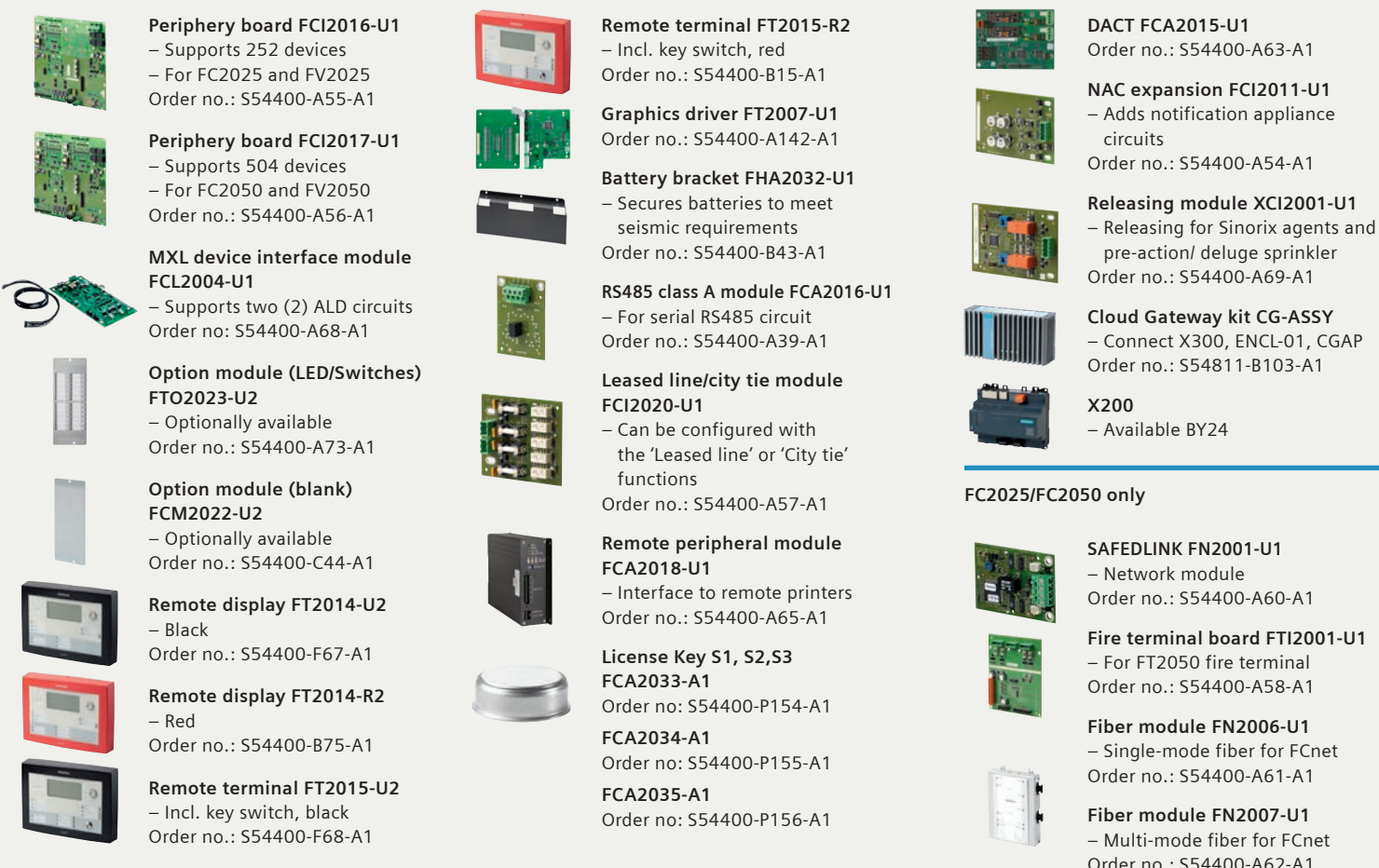
Housings FC2025/FC2050



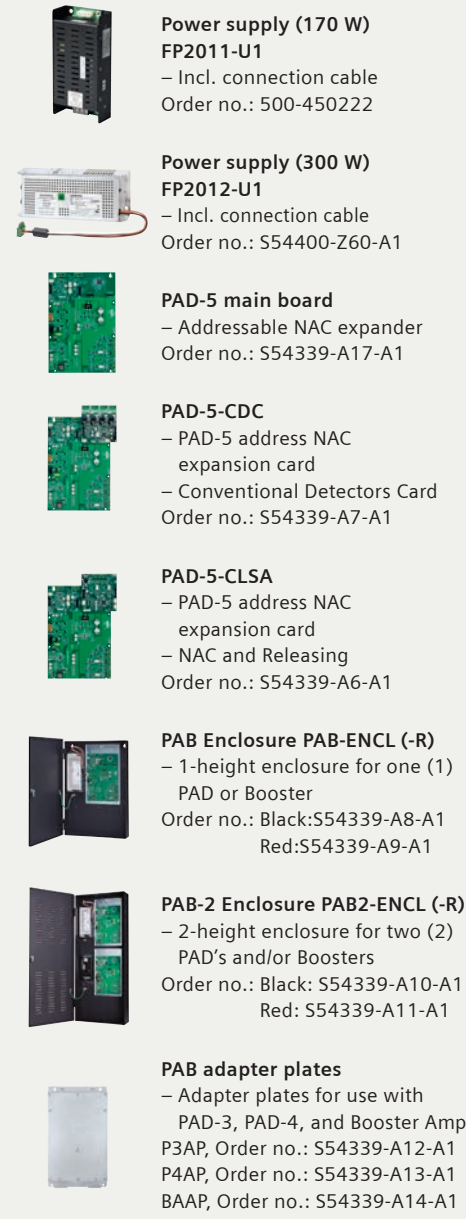
System operating units FC2025/FC2050 and FV2025/FV2050



Expansion and networking options FC2025/FC2050 and FV2025/FV2050



Power supply FC2025/FC2050

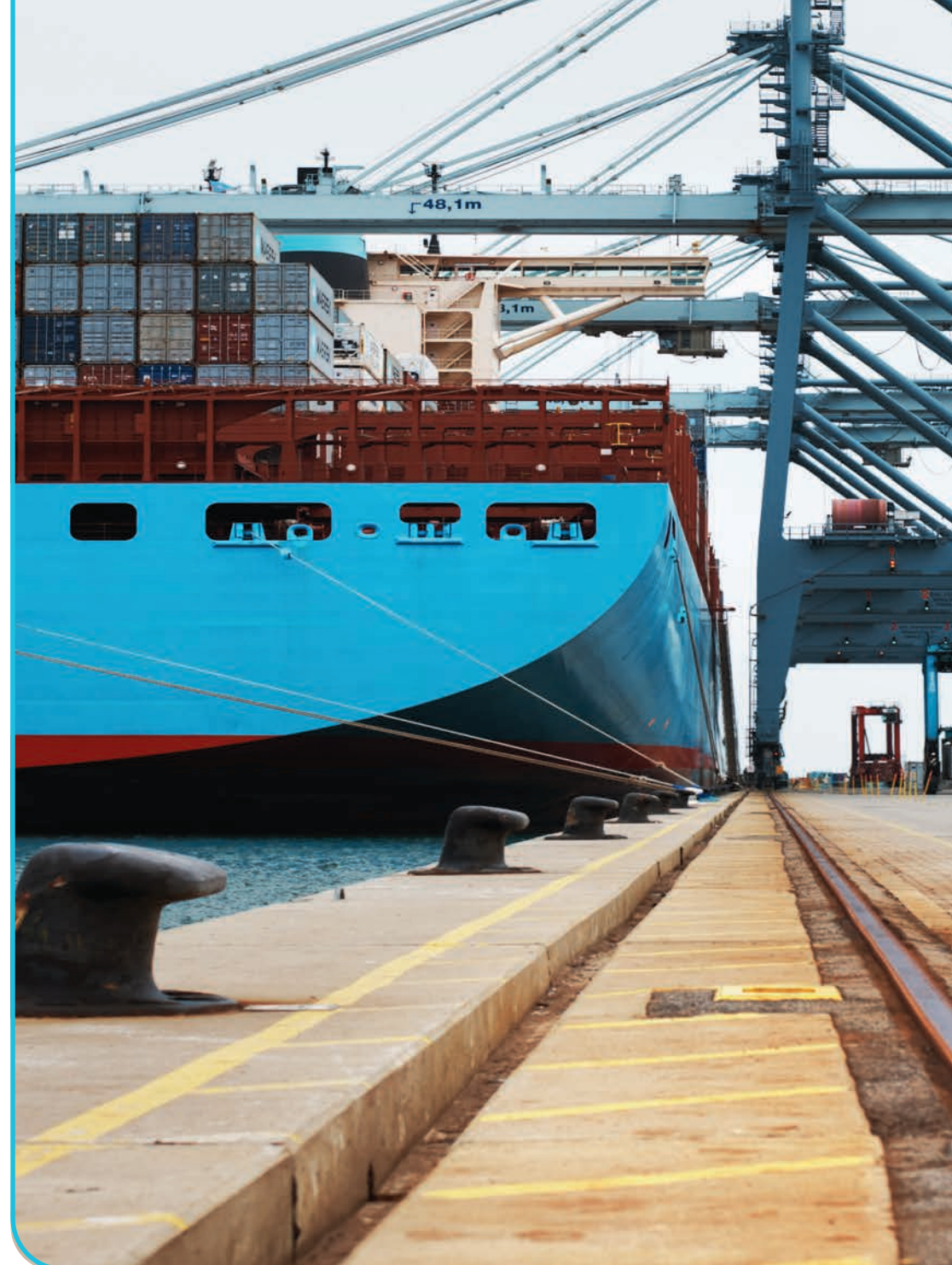


Tabular annunciators



Marine/Harsh Environment

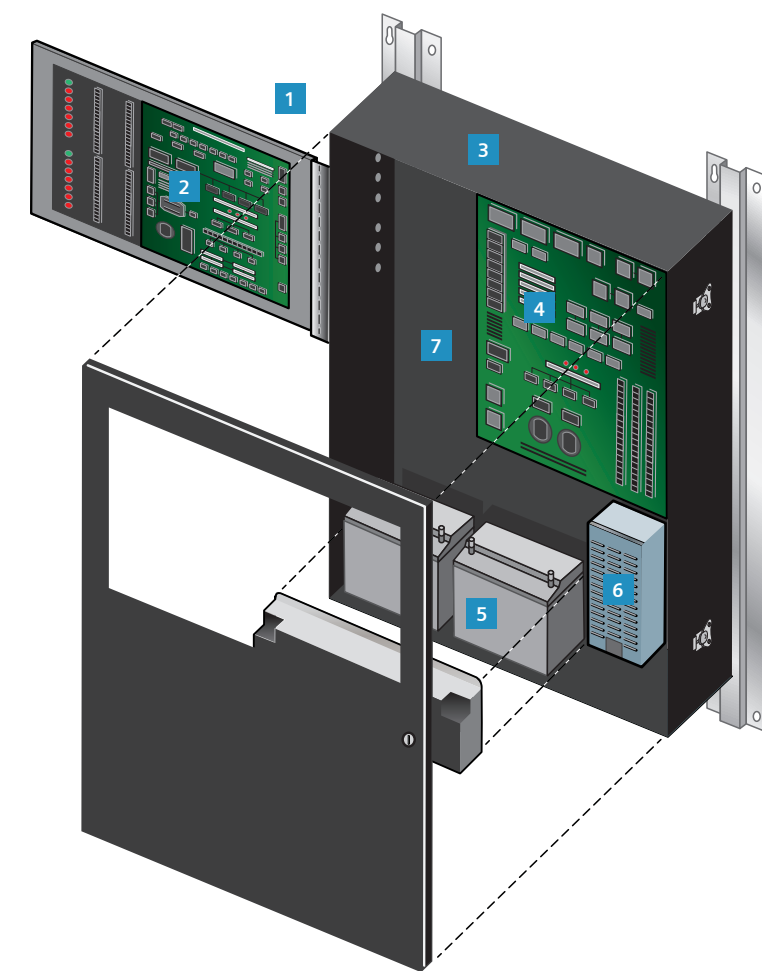
Desigo Fire Safety fire systems deliver the ideal combination of dynamic protection and cost-effective flexibility for a wide range of marine applications. Ship designs are constantly evolving with new vessels adopting innovative new technologies. Siemens helps you to navigate your ever-changing market conditions with fire systems that keep your business competitive.



FC2025/FC2050 Fire alarm control panel

SIEMENS

- 1 Inner door
S54400-B52-A1
- 2 Operating Unit
S54400-C40-A1
- 3 Marine/harsh environment enclosure
S54400-C144-A1, FH2071-UM
- 4 Periphery Board
S54400-A55-A1, S54400-A56-A1
- 5 Hi-Temp battery
S54400-Z62-A1, BP-62
- 6 Power supply
500-450222, FP2011-U1
- 7 MXL device interface module
S54400-A66-A1, FCL2004-U1



Desigo Fire Safety Marine/Harsh Environment Equipment



Physical properties of Model FH-2071-UM enclosures include:

- Fully gasket-sealed outer door
- Draw latches for secure closure
- Wire-braided, corrosion-resistant vibration isolators
- One (1) battery bracket which hold two (2) 16AH batteries
- One (1) AC line EMI filter

Order no: S54400-C144-A1

Battery Set (Model BP-62) provides back-up, emergency power for Marine-only installations

- 16AH Standby power @ 24VDC
- With metal jacket, operable between –40°F/C to 176°F (80°C)
- Comes with two (2) batteries per order

Order no: S54400-Z62-A1

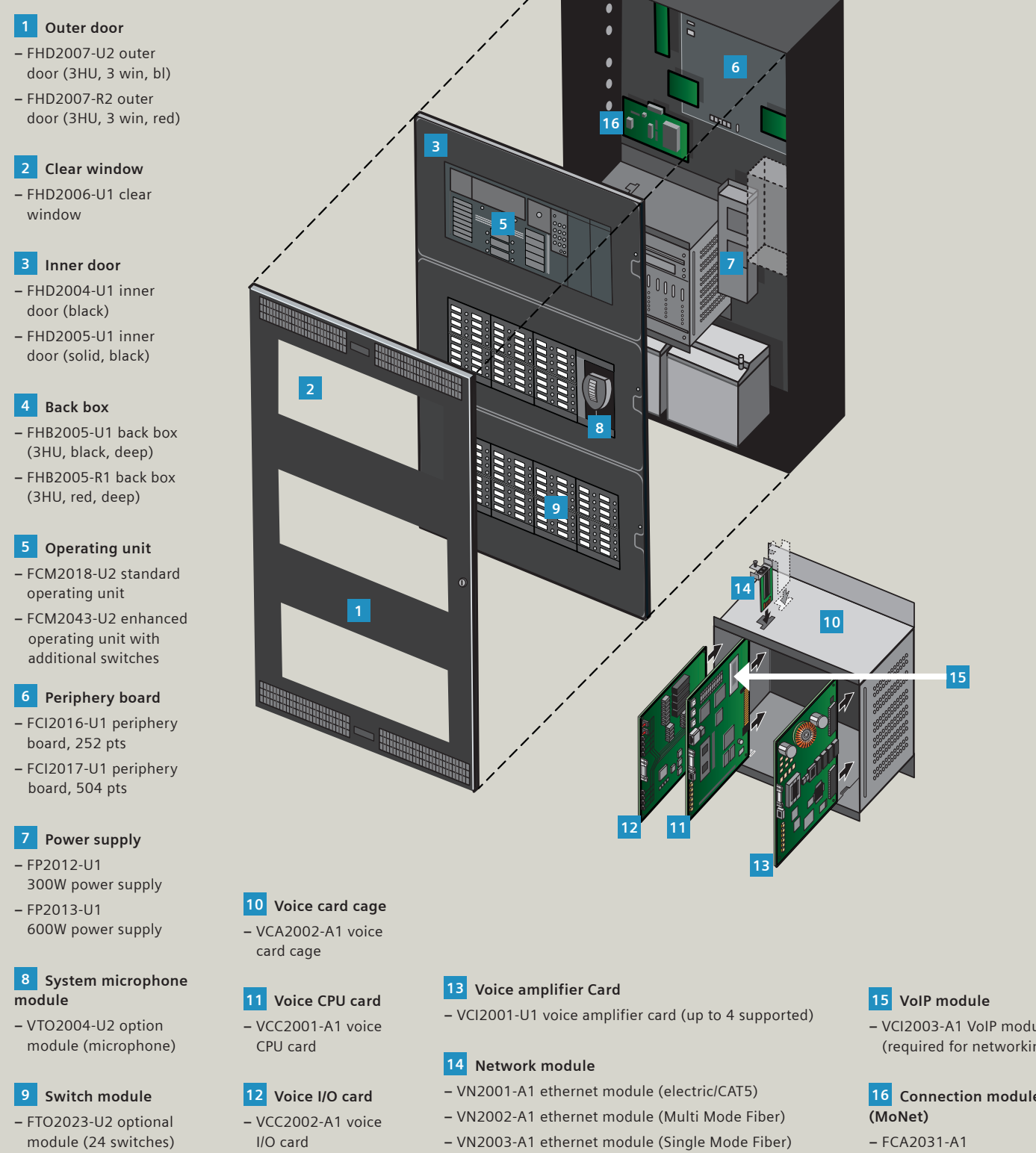
Model USCC-XPLATE is required for Marine applications, in order to reduce radio-frequency interference (RFI)

- Ordered separately, each faceplate fits over Model XTRI-series devices

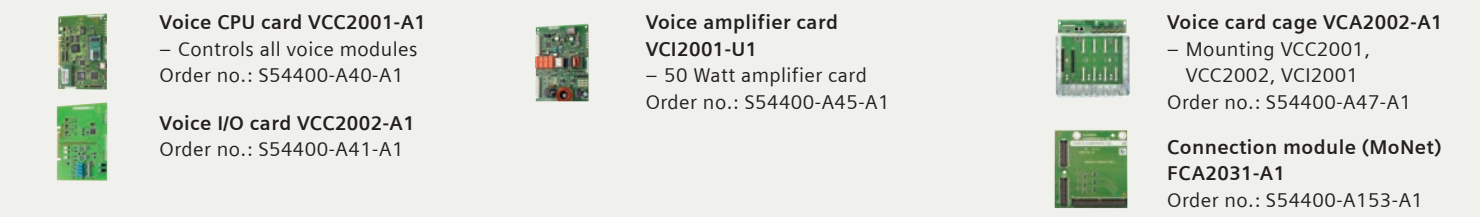
Order no: S54400-F1-A1

Desigo® Fire Safety Intelligent Voice Communication

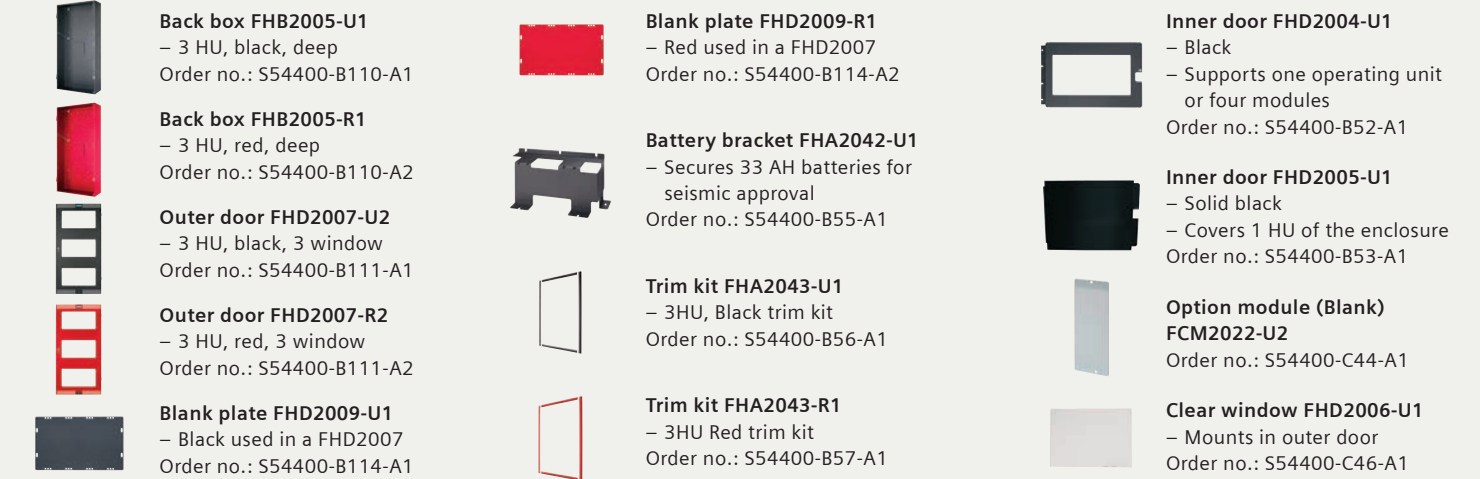
FV2025/FV2050 networkable control panels



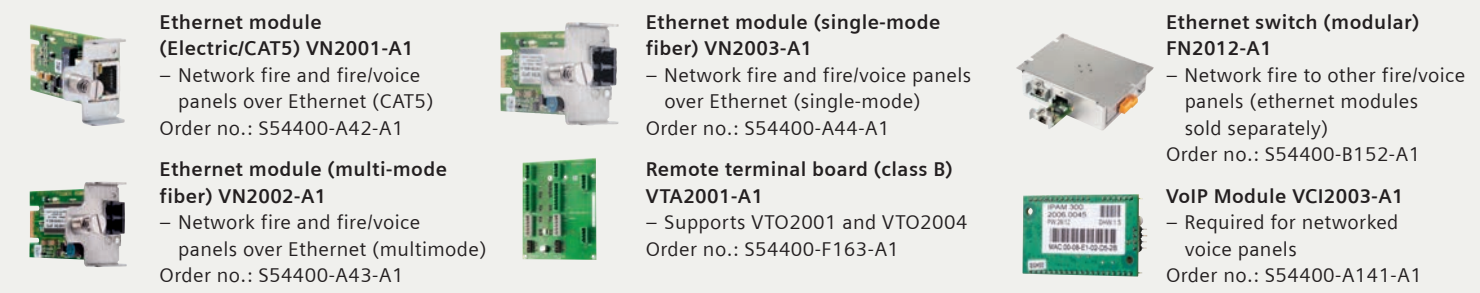
Basic system modules FV2025/FV2050



Housings FV2025/FV2050



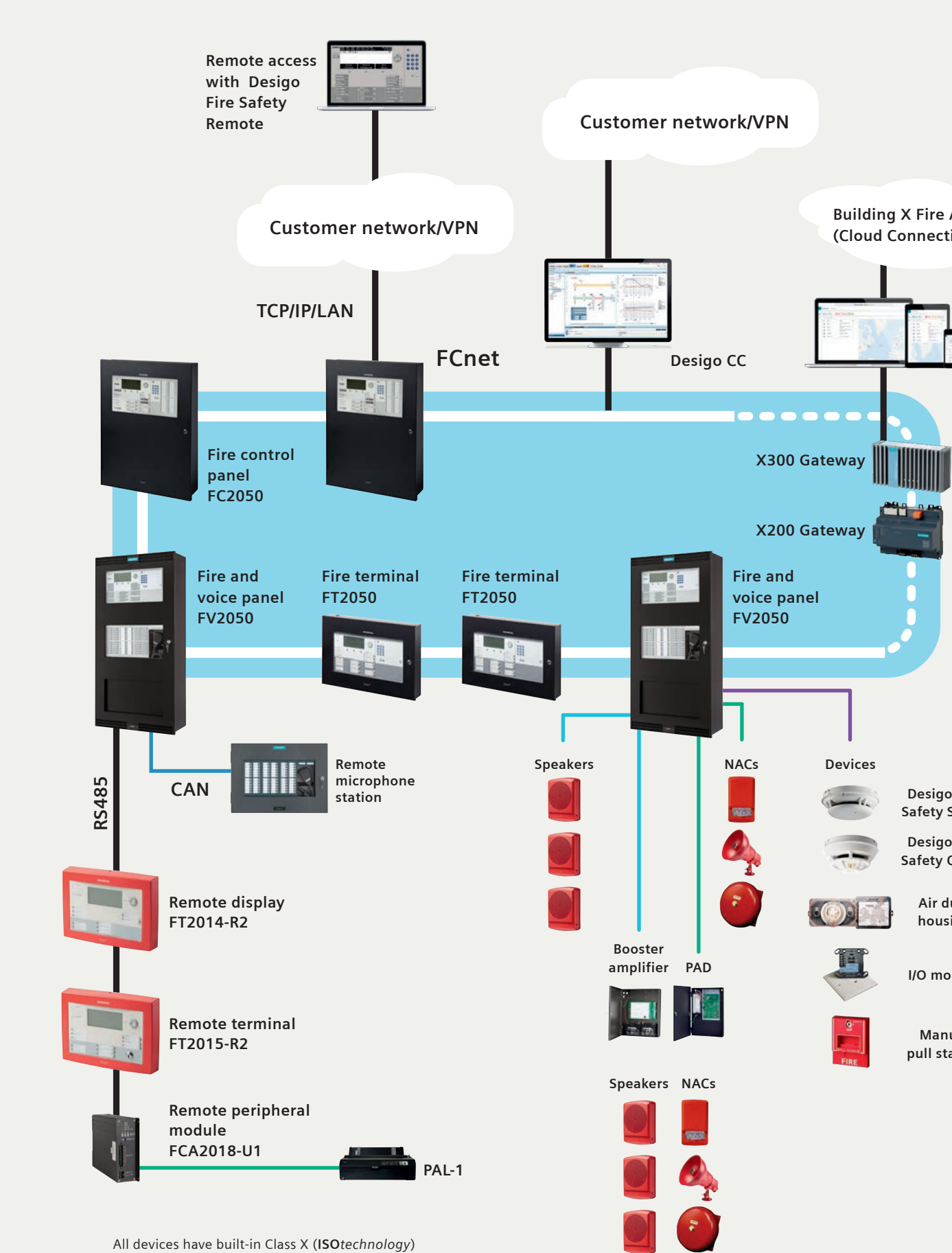
Networking modules FV2025/FV2050



Booster amplifier parts and kits FV2025/FV2050



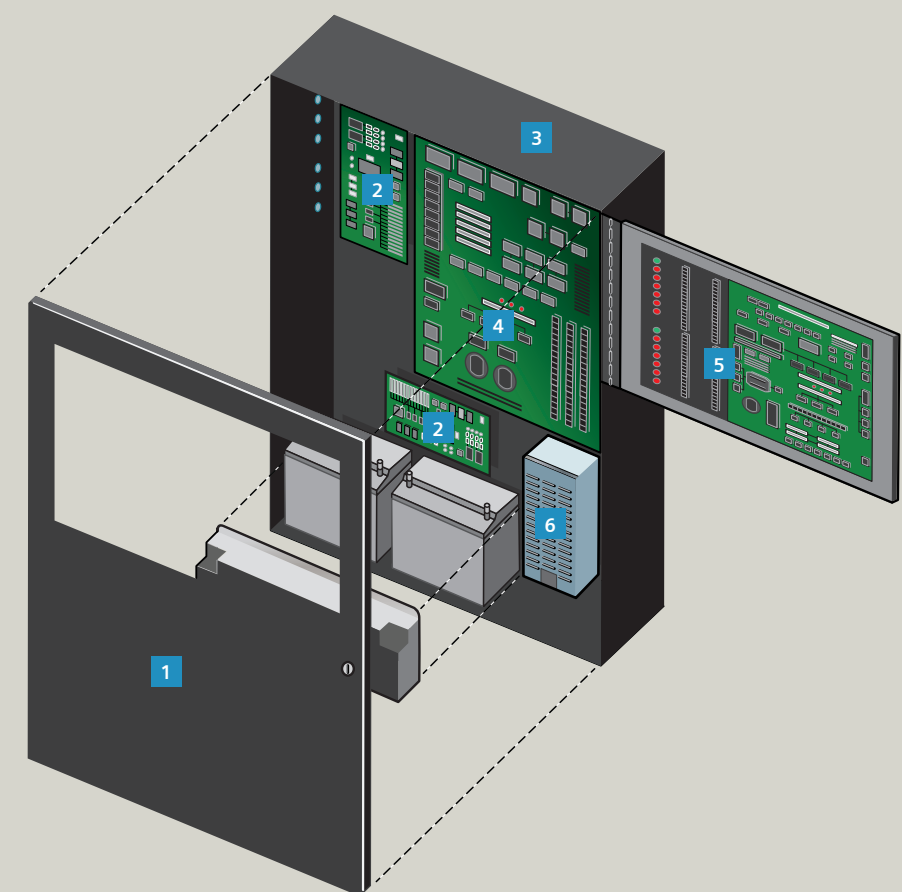
FV2025/FV2050 Network



Migration

MXL-IQ (MSE-3L/MSE-3M)

- 1 Outer door*
(part of mechanical migration kit)
- 2 MXL device interface module
S54400-A66-A1, FCL2004-U1
- 3 Existing MXL-IQ enclosure
- 4 Periphery Board
S54400-A55-A1, S54400-A56-A1, FCI2016-U1
- 5 Operating Unit
S54400-C40-A1, FCM2018-U2
- 6 Power Supply
500-450222, FP2011-U1 or S54400-Z60-U1, FP2012-U1



Mechanical Migration Kits

F5250

The migration kit includes a new outer door, inner door, backplate, and hinge bracket. This is suitable for use with both the FC2005 as well as the FC2025/FC2050 using the 170W power supply.



MXL-IQ

The MXL-IQ Migration Hardware Kit from Siemens – Fire Safety is specifically designed for the seamless transition of an existing Siemens MXL-IQ control panel into a fully operational Desigo fire safety system.

