

Sinteso Planning Tool

Panels, network and accessories

SIEMENS

SintesoView/Sinteso Touch, Sinteso Mobile
For remote operation using SintesoView and Sinteso Touch, a Windows-enabled device is either connected to the Internet or customer network via LAN, WLAN, or mobile network operator. The signals are then transmitted to an Ethernet switch that connects to the backbone. This connection is protected against unauthorized access by a firewall. A license key provides access to the fire protection system. The device serves as a virtual terminal, offering the same user interface as the operating station or panel (FT2080, FT2040, FC20xx) in the fire detection network.

The user interface of the Sinteso Mobile app for Android smartphones has a tabular design and allows complete system access. Alarms and faults are distinguished by color.

Backbone (FCnet/LAN)

Clusters can be networked via an Ethernet backbone, using industrial LAN technology. Siemens is the first manufacturer who offers this as EN 54-approved solution. With standard IT architecture, building structures and organizational processes can be ideally represented.

Characteristics of networking via backbone
– Ethernet switch to connect a cluster (FCnet/SAFE-DLINK) to the backbone (FCnet/LAN)
– Redundant transmission thanks to circular wiring
– Redundant connection possible due to two Ethernet switches
– Increased EMC protection thanks to fiber-optic cabling
– Easily programmable, EN 54-compliant system-wide control
– Configurable view of each panel
– Each panel can be used as a router panel (please read separate documentation).

Key data
– Max. number of panels in EN 54 system: 64
– Max. number of panels in a cluster: 16
– Max. number of networkable clusters: 14
– Number of panels placed directly on backbone: 4*
– Number of panels with system-wide view: 5*
– Max. distance between clusters
Fiber optic multi mode (FN2012-A1) with Ethernet module (MM) VN2002-A1): 4,000 m
Fiber optic single mode (FN2012-A1) with Ethernet module (SM) VN2003-A1): 40,000 m
* more with appropriate system topology

The following guidelines must be considered
– To fulfill the EN 54 norm, only 1 Ethernet switch is required to connect control panels with less than 512 fire detectors to the backbone.

Cluster (FCnet/SAFE-DLINK)

Via the powerful FCnet/SAFE-DLINK, up to 32 panels can be networked (fire control panels and fire terminals).

Characteristics of networking via the system bus
– Wiring with two-wire lines
– Redundant transmission thanks to circular wiring
– Increased safety due to degrade mode using a second network module
– No additional cabling necessary for degrade mode; even for systems with more than 512 fire detectors
– Configurable view of individual panels

Key data
– Max. number of panels in a cluster: 32
– Max. number of panels in a cluster if connected to a management platform: 16
– Max. distance between panels with copper cable
– without repeater: 1,000 m
– with repeater: 2,000 m
– Max. distance between panels with fiber-optic cable
– multi mode (FN2007-A1): 4 km
– single mode (FN2008-A1): 40 km
– Max. number of panels with system-wide view: 5

FDnet

The FDnet (Field Device network) is a modern, multipurpose bus system. It allows rapid, fail-safe communication between the Sinteso™ bus elements and the fire control panel.

Characteristics of networking via the detector bus
– Use of all cable types (with/without shielding)
– Integration of radial cable networks without modifications to cable network
– No shielding necessary
– Turbo isolators for uninterrupted detection and alarming
– 2-wire loop
– Power supply to all bus elements via the FDnet (except input/output module FDC0221, zone module FDC0223, "transponder" FDC0223, extinguishing control unit XC10, aspirating smoke detectors FDA221/FDA241)

Key data
– Up to 40 T-taps
– Max. 252 bus elements per loop
– Cable lengths up to 3.3 km with up to 252 bus elements

Detailed planning information

Detailed information for planning of the system are available in the planning document, Doc. ID 008843.

Legend for the interfaces:

Serial interfaces

One each optional RS232 and/or RS485 interface (can also be freely combined)

per control panel or terminal

Network to connect clusters

Network to connect panels

Network to connect Sinteso devices

Backbone (FCnet/LAN)

Cluster (FCnet/SAFE-DLINK)

FDnet

Operating add-on

Extinguishing terminal (1 sector)

Extinguishing terminal (4 sectors)

Operating add-on (4xLED incl.)

Operating add-on (4xLED incl.)

Key switch Kaba FT02006-C1

Key switch Nordic FT02006-B1

Event printer FT02001-A1

Event printer DL3750+

Additional power supply for installation in empty housings.

Optional: Additional power supply with FP2005-A1 is possible

Order no.: ASQ00020825

Additional power supply (150 W)

FP2005-A1

For the independent power supply of fire terminals such as FT2040.

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