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Sinteso FC2080 control panel – unique, reliable and flexible

A modular control panel for very large fire detection systems and applications that need the highest safety requirements

The Sinteso FC2080 control panel offers you maximum safety and flexibility: thanks to multiple redundancies, the panel is highly available, provides connections for up to 5,000 peripheral devices and can accommodate up to 37 module bus cards.

Reliable protection for very large areas

Whether airports, chemical and pharmaceutical production facilities, data centres, or power plants – the Sinteso[™] FC2080 control panel allows fire detection systems to be set up on an extraordinarily large scale.

Up to 5,000 peripheral devices and fire detectors can be connected to the FC2080. The panel can also be networked with additional Sinteso control panels and terminals: up to 64 Sinteso stations can be connected via the cluster-backbone architecture and easily integrated into customer networks.

Comprehensive protection for new and existing buildings

The FC2080 protects new buildings through the connection of FDnet devices and Sinteso detectors as well as networking with additional Sinteso stations.

At the same time, the FC2080 can be used in the step-by-step modernisation of existing fire detection systems from Siemens: the FC2080 can replace existing control panels. Existing detector systems can be connected to it via the appropriate line cards. Mixed operation with Sinteso detectors is also possible.



Highest level of security thanks to multiple redundancies At the network level:

- EN 54-approved backbone with cluster connections via two Ethernet switches – messages are forwarded even if a LAN connection is interrupted or one switch should fail
- Redundant network card reliable operation even if one network card should fail
- Loop structure of cluster and backbone – uninterrupted operation even in the case of open or short circuit

At the control panel level:

- Redundant CPU card automatic switch over in case the first CPU should fail
- Software redundancy monitored software with simplified fallback version for taking over the functionality in the event of a failure
- Integrated degrade mode forwarding of alarms if central processing units should fail

At the field level:

- Failsafe functioning of peripheral devices is guaranteed in the event of an FDnet fault, e.g. for fire controls
- Turbo isolators communication maintained in case of an open or short circuit, e.g. for uninterrupted alarming
- Loop structure of FDnet reliable operation and uninterrupted alarming in the case of an open or short circuit

Optimally adaptable through modularity

Thanks to its modular design, the control panel can be individually configured and extended to accommodate up to 37 line and I/O cards. The standardised 19" cabinet has plenty of room for suitable plug-in units and can be used to its entire depth of 600 mm, meaning extreme flexibility for future system extensions. In addition, the operating unit can be integrated into the housing door or positioned remotely, as desired. Thus, the control panel can be aligned to specific requirements and adapted to any changes.

Highlights

- Implements the highest safety requirements, even for large systems
- Various modernisation options for existing fire detection systems
- Maximum system availability thanks to multiple redundancies, including redundant CPU
- Customised configuration and flexible extension through modular design

Siemens plc

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Sales enquiries: 0844 892 1033 option 4 Tel: 01276 696111 Email: firesafetyandsecurity.gb@siemens.com 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.