



CS1140

AlgoRex

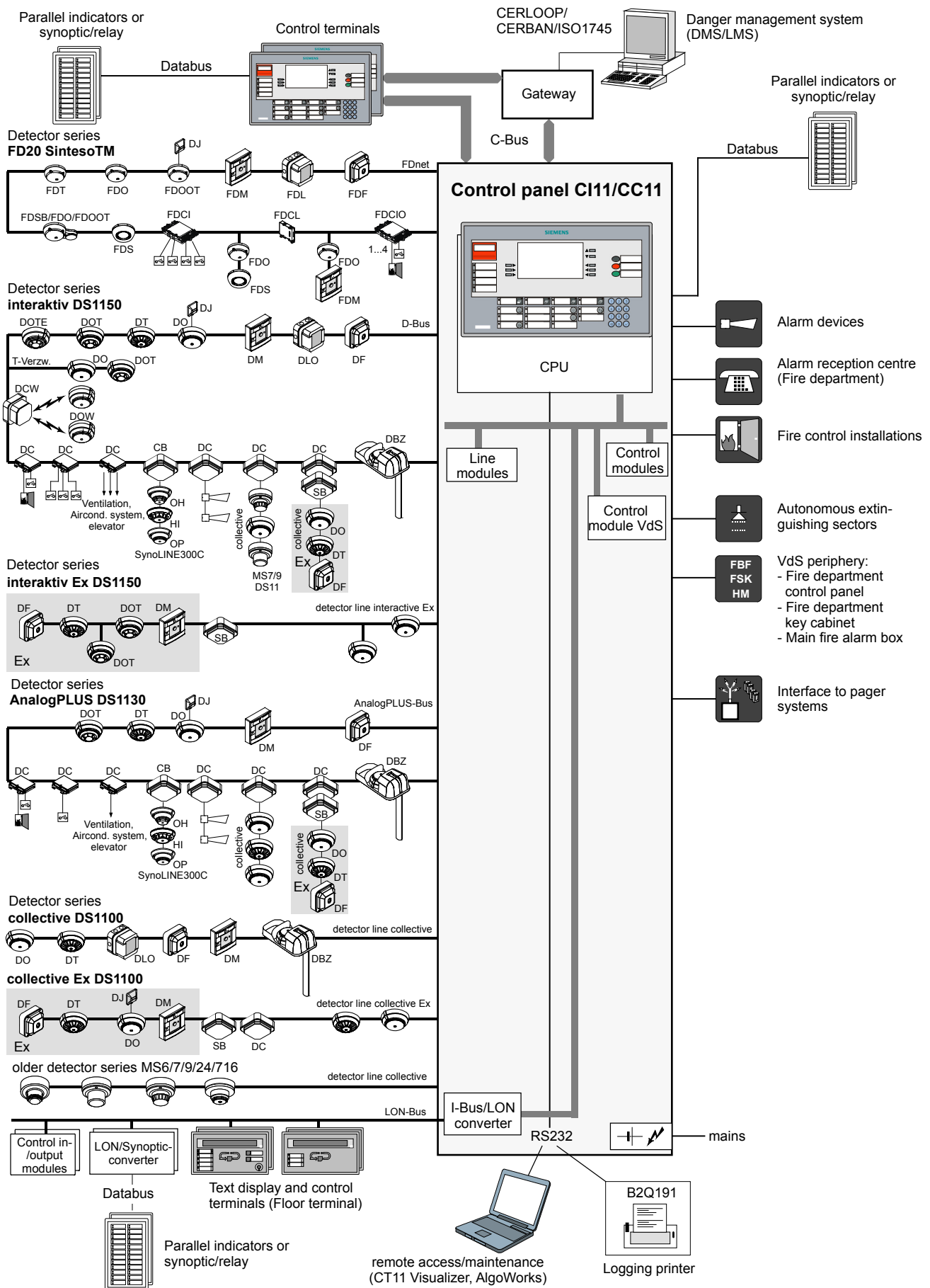
Fire detection system



EP7F

- **Modular, microprocessor-controlled fire detection system**
- **16 different station types freely combinable on a loop-wired system network**
- **User-friendly comfort terminal for guided system operation**
- **Most flexible parameterization possibilities for almost any application**
- **Highest system availability through decentralized signal evaluation in control units and detectors**
- **Integrated emergency operation functionality**
- **Number of detection points widely scalable up to >2000 detectors per panel**
- **Processes the signals from widely varying detection systems such as:**
 - FD20 devices, series Sinteso™
 - interactive and wireless fire detectors, series DS1150
 - AnalogPLUS fire detectors, series DS1130
 - collective fire detectors, series DS1100
 - addressable and collective fire detectors, legacy series MS9, MS7, MS6
- **Designed for optimum installation and commissioning efficiency**
- **Large number of options to cover applications like I/Os, sounders, networking to management system, VdS, extinguishing, pager system etc.**
- **Additional indication and operation devices like LED indicators, synoptic panels, text-oriented floor repeater terminals, fire brigade terminals**
- **Remote access/maintenance possibility**

System overview



Function

The control unit registers signals from automatic fire detectors, manual call points and input modules via detector bus or detection line and carries out decentralized control functions via output modules.

Function characteristics

Detector series

The control unit processes the signals from interactive, addressable, collective detector series and FD20 Sinteso™ devices.

Older detector series

Possibility to connect older fire detectors from series MS6, 7, 9, 24, 716

Control In-/Outputs

Freely programmable control outputs are available for fire control installations. Driver and / or relay outputs as require.

Organization logic

The modification of control unit organization to changed customers' requirements is no problem).

Emergency operation

Emergency power operating period 24 to 72 hours (depending on the configuration)

Event memory

Up to 1000 events can be arranged, stored and recalled chronologically and according to message category.

Extinguishing activation

An extinguishing section can be activated via the 'Extinguishing' control module. The extinguishing control modules are executable autonomously. A manual release is fully functional also in case of failure of the control unit.

Ground fault monitoring

All connection lines going off the control unit are monitored on ground fault.

Real time clock

Automatic summer / winter time switchover by means of an integrated real time clock, with its own emergency power supply.

Series FD20 Sinteso™

Fire detectors with evaluation algorithms of the latest generation signal processing with **ASAtechnology™**. Time- and process-dependent detection behavior. Highest detection reliability due to unique detector properties. Highest immunity to deceptive phenomena, resistant to environmental and deceptive influences. Detectors are equipped with moisture protection by default.

Series DS1150

Interactive fire detectors with a unique evaluating and decision logic are based on algorithms. They provide the highest degree of detection reliability and differentiate clearly between genuine fire phenomena and deceptive phenomena.

Series DS1130

Addressable fire detectors of the AnalogPLUS detector system in which detector sensitivity can be selected centrally intelligent signal evaluation (alarm verification, comparison and evaluation of signals from several detectors).

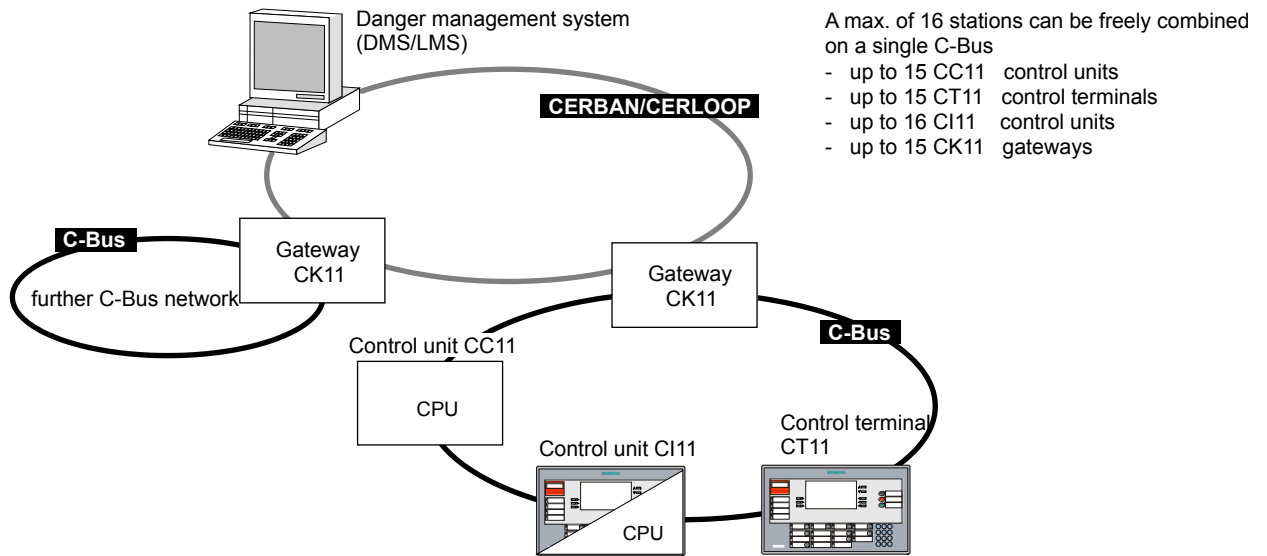
Series DS1110

Collective fire detectors with traditional technology for communication and signal evaluation (one alarm signal per detection line), the detectors have the same first-class sensor system as the other AlgoRex detectors.

Expansion up to a complex fire detection system

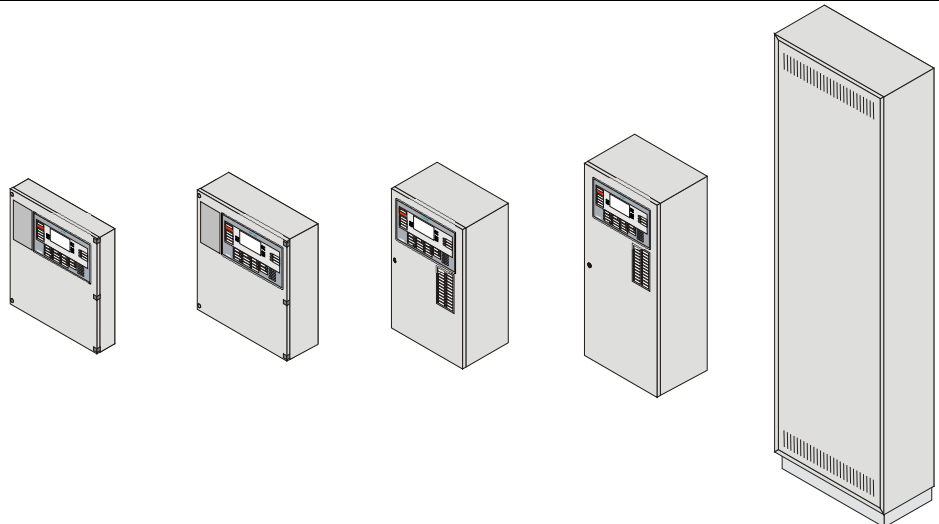
The structure of the C-Bus network permits the connection of several control panels and control terminals. These stations can be mounted in the same housing or in separate housings. The location is chosen according to where it is easiest for operation or installation.

However, the fire detection system can be extended even further. Several C-Bus networks can be combined to a danger management system by means of a gateway CK11.



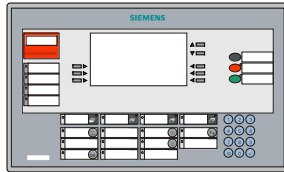
Types of control panels CI/CC

Stations	CI11	CC11
Max. number of detectors	> 500	> 2000
Number of line and control modules	up to 8	up to 16
Control terminal	permanently built-in	built-in or mounted in separate housing

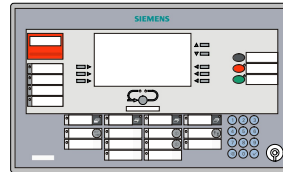


Metal housing, type	H38G220	H38G320	H47...	H67...	H98...
Dimensions W x H x D [mm]	515 x 602 x 100	515 x 602 x 155	434 x 735 x 300	434 x 1130 x 300	600 x 2015 x 300

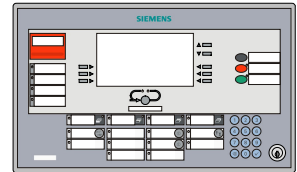
Types of comfort terminals



B3Q661 (Standard)

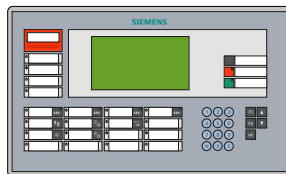


B3Q681 (Nordic)



B3Q686 (CH)

Types of standard terminals



B3Q566 (Asia/Pacific)

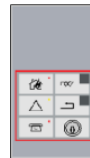
Auxiliary equipment



Cover
H23B010



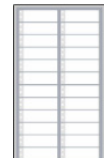
Information
module
H23B040



Fire department
control panel
(CH) B3Q321



Operating unit
'Extinguishing'
B3Q440




Parallel indica-
tors (24x2 LEDs)
B3R051

Technical data

Control units	CI11 / CC11		
Mains supply voltage	AC 115/230 V, +10 %/-15 %, 50/60 Hz		
Power consumption	40...220 VA		
Emergency power operating			
– Standard	12...24 h		
– optional	...72 h		
Protection category (IEC 60529)			
– Housing H38	IP40		
– Housings H47 / H67 / H98	IP30		
Color			
– Housings	light grey, RAL 7035		
– Front surface (control console)	silver, RAL 9006 / grey Pantone 427C, 431C		
Operating temperature	0...+55 °C (B3Q661)		
	0...+40 °C (B3Q681/686)		
Storage temperature	-20...+60 °C		
Humidity (no condensation)			
– at T = 25 ±3 °C	≥95 % rel.		
– at T = 40 ±2 °C	93 % rel.		
Approvals			
– VdS	G294042		
– LPCB	126bk/01		
– others	on request		

Bus / Detection line	FD20	Interactive	AnalogPLUS	Collective
	Sinteso™	DS1150	DS1130	DS1100
Number of addresses	...126	...128	...128	1
Number of wires	2	2	2	2
Network structure	Master/Slave	Master/Slave	Master/Slave	no
Loop line	yes	yes	yes	no
Short circuit proof	yes	yes	yes	no
T-tap	yes	yes	no	no

06  0786	CS1140	Siemens Switzerland Ltd, Gubelstrasse 22 CH-6301 Zug, Switzerland Technical data: see doc. 009760
CS1140 - Control and Indicating Equipment incl. integrated 24VDC Power Supply Equipment for use in fire detection and fire alarm systems installed in buildings		
305/2011/EU (CPR): EN 54-2 / EN 54-4 ; 2004/108/EC (EMC): EN 50130-4 / EN 61000-6-3 ; 2006/95/EC (LVD): EN 60950-1 ;		
Declared performance and conformity can be seen in the Declaration of Performance and the EC Declaration of Conformity, which is obtainable via the Customer Support center: Tel. +49 89 9221-8000 or http://siemens.com/bt/download		
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Manual S11
Section 7