



## CI1145

AlgoRex

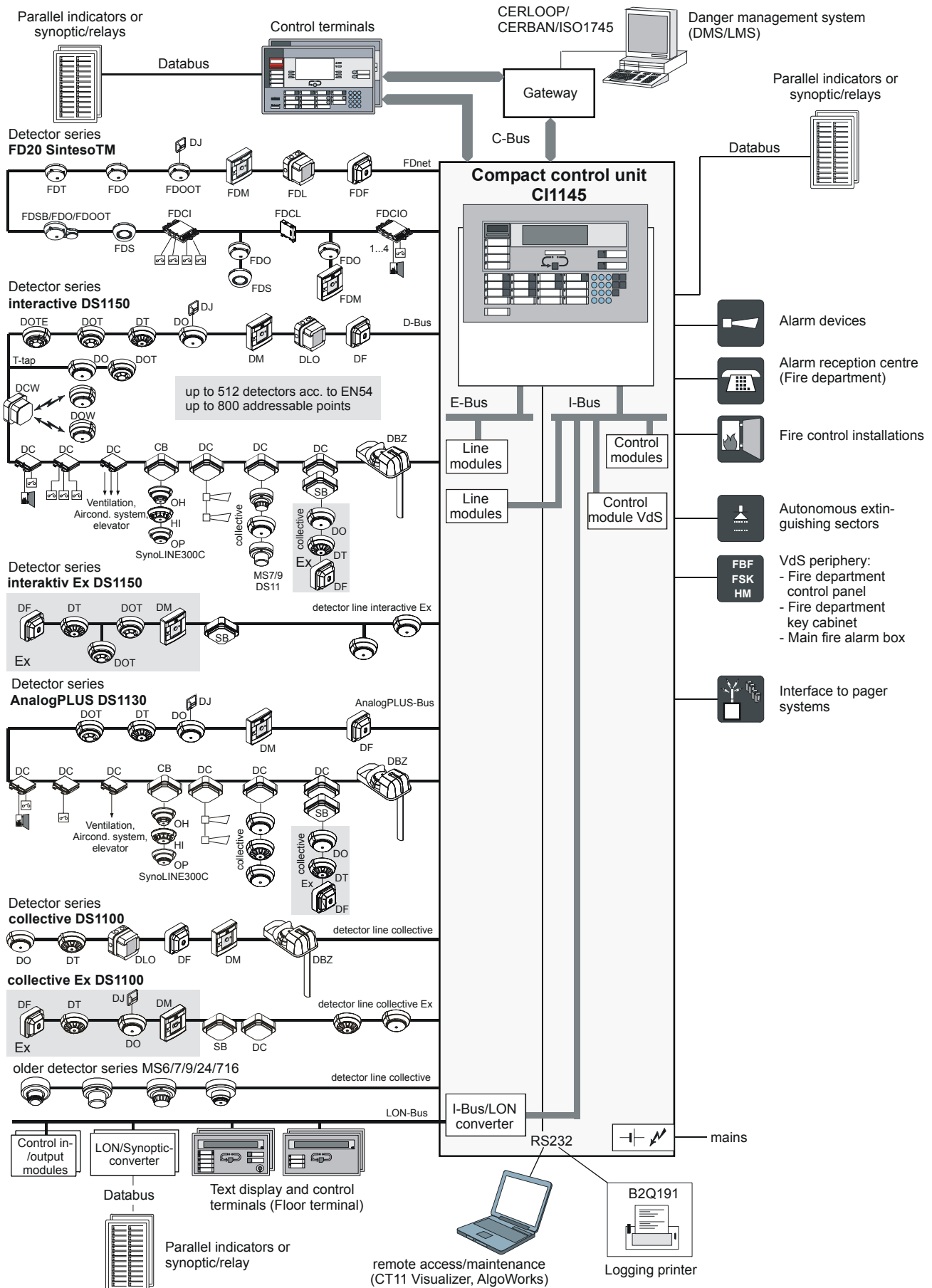
## Compact fire detection control unit



Series CS1140 / EP7F-Z1

- **Pre-assembled fire detection control unit for small to medium-size applications with up to 512 detectors**
- **Highest system availability through decentralized signal evaluation in control unit and detectors**
- **Processes the signals from widely varying detection systems, such as:**
  - FD20 devices, series Sinteso™
  - interactive and wireless fire detectors, series DS1150
  - addressable AnalogPLUS fire detectors, series DS1130
  - collective detectors, series DS1100
  - addressable and collective fire detectors, legacy series MS9, MS7, MS6
- **Built-in operating terminal, up to 15 additional remote (comfort) operating terminals possible**
- **Additional indication and operation devices like LED indicators, synoptic panels, text-oriented floor repeater terminals, fire brigade terminals**
- **Options for further applications like fire control installations, sounders, networking to management system, VdS, extinguishing, pager system etc.**
- **Designed for optimum installation and commissioning efficiency**
- **Most flexible parameterization possibilities for almost any application**
- **Remote access/maintenance possibility**

# System overview



## Function

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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

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### **Detector series**

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

### **Older detector series**

To 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 required.

### **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**

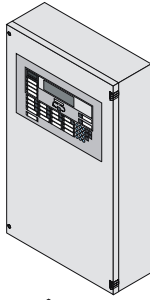
Collective fire detectors with traditional technology for communication and signal evaluation (one alarm signal per detection line), the detectors have the same first-class sensor system as the other AlgoRex detectors.

## Application ranges

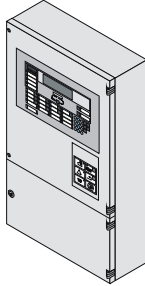
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- small industrial enterprises
- crafts enterprises
- shops
- hotels
- regional banks
- post offices
- railway stations
- old people's homes
- museums
- one-family houses
- etc.

## Models



CI1145-1	Width = 436mm Height = 740mm Depth = 140mm	Standard housing	Connection directly on the electronic modules.
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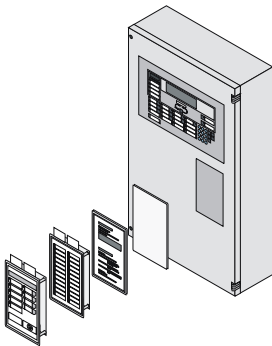
CI1145-2	Width = 436mm Height = 740mm Depth = 140mm	Standard housing with FBA and plan compartment 'CH'	Connection on separate installation field.
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CI1145-3	Width = 436mm Height = 740mm Depth = 140mm	Standard housing	with cutout for auxiliary equipments 1) Connection directly on the electronic modules.
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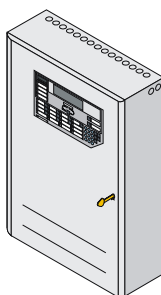
CI1145-4	Width = 436mm Height = 740mm Depth = 140mm	Standard housing	with cutout for auxiliary equipments 1) Connection on separate installation field.
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CI1145-5	Width = 436mm Height = 740mm Depth = 140mm	Standard housing, with increased power supply	with cutout for auxiliary equipments 1) Connection on separate installation field.
CI1145-DE		Germany	
CI1145-NL		Netherlands	
CI1145-UK		United Kingdom	

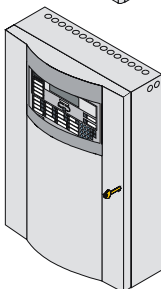
CI1145-6	Width = 436mm Height = 740mm Depth = 140mm	Standard housing for France with special membrane keyboard	with cutout for auxiliary equipments 1) Connection on separate installation field.
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1) Cover plate (spare place for later extensions), Information module (brief operating instruction), Parallel indicators or operating unit extinguishing for 1 extinguishing sector.  
A recess mounting frame set is available for standard housings.



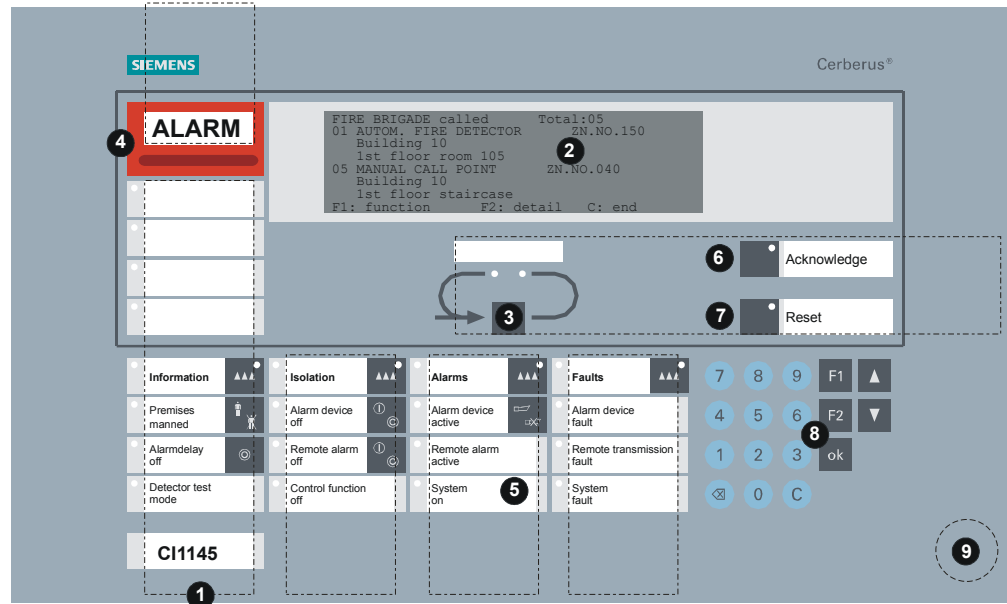
CI1145-SK1	Width = 510mm Height = 740mm Depth = 200mm	Designer housing with flat door	Connection on separate installation field.
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CI1145-SK2	Width = 510mm Height = 740mm Depth = 200mm	Designer housing with designer door	Connection on separate installation field.
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The Nordic housings have a pivoting front panel and the housing door is provided with a door pocket for installation plans in A3 format.

- Simple menu-guided operation
- Illuminated text display with 8 lines of 40 characters each
- Specific customer texts
- Intervention texts
- Operating access via password or key (option)
- Different operating levels depending on user profile



- 1 Slide-in inscription strips in various languages
- 2 Illuminated text display field with 8 x 40 characters
- 3 Scroll key for alarm messages
- 4 "ALARM" display field with LED bar
- 5 Indicator fields, partly with operating keys
- 6 "Acknowledge message" key
- 7 "Reset message" key
- 8 Function key block for menu-oriented operation and for password entry (enabling operation)
- 9 Key switch to enable operation (option)

## Technical data

	CI1145-1	CI1145-2	CI1145-3	CI1145-4 CI1145-6 CI1145-SKx	CI1145-DE	CI1145-5 CI1145-NL CI1145-UK
Processing capacity	max. 512 detectors (line units)					
Connectable detector series	...4 FD20 Sinteso™ loops each with max. 126 devices or ...4 interactive loops each with max. 128 detectors or ...4 AnalogPLUS loops each with max. 128 detectors 1) or ...48 collective lines each with max. 25 detectors 2)					
System operating	cabinet front equipped with operating terminal ...15 external operating terminals connectable via C-Bus					
Floor terminals (option)	...32 devices connectable via LON-Bus module					
Indicator terminal (option)	1 parallel indicator terminal connectable via data bus					
– built-in	...8 parallel indicator terminals connectable via data bus					
– external						
Extinguishing control (Option)	..2 sectors	–	..2 sectors	..2 sectors	..2 sectors	..2 sectors
Control in-/outputs	...16 programmable control in-/outputs max. 40 mA/24 V 2 monitored control lines for alarm devices max. 0,5 A/24 V 2 contacts for remote transmission unit max. 1 A/30 V					
Relay for fire controls	optional..14	10	optional..14	optional..12	optional..12	3 optional..7
RS232 interface	interface for printer, maintenance PC					
– main board						
RS232 card (option)	2 serial RS232 interface (galvanic isolated) 1 interface with extended function e.g. for telephone modem					
Interface for communication to paging systems (option)	supports standard communication protocol ESPA4.4.4					
Interface to parallel indicators or synoptic/relay	to external units (not monitored)					
– from main board or operation terminal	to external units (monitored)					
– from LON/synoptic-converter						
VdS interface (option)	1	–	1	1	1	1
C-Bus-Gateway to DMS/LMS (option)	1	–	1	1	1	1

## Technical data

	CI1145-1	CI1145-2	CI1145-3	CI1145-4 CI1145-6 CI1145-SKx	CI1145-DE	CI1145-5 CI1145-NL CI1145-UK
Emergency power supply						
- with 15Ah battery	..30 h	..24 h	..30 h	..30 h	..30 h	..30 h
- with 27Ah battery	..72 h 3)	-	..72 h 3)	..72 h 3)	..72 h 3)	..72 h 3)
Power supply						
- mains supply voltage					115/230 VAC +14 % /-20 % (+10 % /-15 %)	
- internal system voltage					29,6 VDC +/- 2 %	
- total available current	3,5 A	3,5 A	3,5 A	3,5 A	3,5 A	6 A
Color						
- Cabinet					light grey, RAL 7035	
- Operating terminal					silver, RAL 9006, Pantone 431C	
Weight						13 ... 29 kg depending on type and configuration (without batteries)
Protection category EN 60529/IEC 529						IP40
- Operating temperature						0 °C...+50 °C
- Storage temperature						-20 °C...+ 60 °C
Humidity						
- at T = 25 ±3 °C						≥95 % rel.
- at T = 40 ±2 °C						93% rel.
Approvals						
- VdS						G294042
- LPCB						126h/01
- others						on request

- 1) Up to 8 AnalogPLUS loops possible but only max. 512 detectors allowed
- 2) Up to max. 48 collective detector lines possible, but only max. 512 detectors allowed
- 3) 72 h with max. 200 interactive, AnalogPLUS or Sinteso™ detectors possible