

Desigo® Fire Safety Modular system

Conventional Detector Card Model CDC-4

Architect & Engineer Specifications

- Supports up to 30 Siemens conventional smoke detectors per zone
 - Four (4) 'Class A' or 'Class B' zones
- Also supports various detectors produced by other manufacturers
- Supports unlimited shorting devices per zone
 - Custom message by zone available
- Mounts into a single slot of either a 2-slot (Model CC-2) or 5-slot (Model CC-5) card cage
- Ground-fault detection
- Plain decimal-address setting
- Optional alarm verification by circuit
- Built-in status and troubleshooting light-emitting diodes (LEDs)
- UL864 & CAN / ULC-S576 Listed;

Product Overview

The Conventional Detector Card (Model CDC-4) is used to monitor Siemens – Safety conventional detectors on the Desigo Fire Safety Modular (Desigo Modular) fire-alarm control panel (FACP). Model CDC-4 can be used in applications where conventional detectors are more suited than addressable detectors, such as hallways or large meeting rooms.

Model CDC-4 can also be used to upgrade Siemens conventional fire-alarm panels to the Desigo Modular system without requiring detector replacement.

Specifications

Each of the four (4) conventional zones can be wired 'Class A' (Style D) or 'Class B' (Style B). Up to 30 conventional photo (including photo-thermal) detectors can be wired to a single zone. A single zone can optionally support a single beam detector. Additionally, each zone can have an unlimited number of normally open (N.O) contact devices, such as: manual pull stations and thermal detectors.

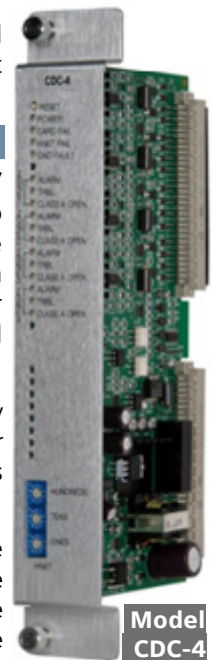
Smoke detectors can use any variation of an audible base | a relay base | a remote LED. The appliance will activate when that detector goes into 'Alarm' mode. Each zone can operate the appliances associated with the first smoke detector in 'Alarm' mode.

Additionally, each zone can also be configured to operate with the Alarm Verification feature. This feature helps reduce nuisance alarms by automatically verifying an 'Alarm' event received on the zone caused by smoke detectors. The zones can also each be configured for degrade operation, allowing partial-system functions when the system loses contact with the main-system control unit.

The operational characteristics and the custom message for each zone are programmed using the *ZEUS-D* programming tool, and is stored within the system. Addressing Model CDC-4 is performed using the integral (3) three-position, decimal address switches located on the front of the card.

Diagnostic LEDs on Model CDC-4 give indication of power, communication, ground-fault-by-card, alarm-by-circuit, and trouble-by-circuit. These LEDs aid in troubleshooting problems found on a system. A local reset switch for Model CDC-4 card is also provided.

Model CDC mounts in a single slot of a Model CC-5 or Model CC-2 card cage. Field wiring for Model CDC-4 is connected to the upper terminals on the card cage, while 24VDC is wired to the lower terminals for powering the zones.



**Model
CDC-4
Conventional
Detector Card**



Compatibility Tables

COMPATIBLE SIEMENS FIRE SAFETY DETECTORS – Maximum 30 per zone, unless indicated –	
DF-1192	(Four [4] Per Zone)
DI-3 /3H	–
DI-A3 /A3H	–
DI-B3 /B3H	–
DT-11	–
DT-135R /135F	(Unlimited)
DT-135CL /135CS /135WP	(Unlimited)
T-200R /200F	(Unlimited)
DT-200CL /200CS /200WP	(Unlimited)
DT-3P-135	(Unlimited)
DT-140EP / 160EP / 190EP / 210EP / 225EP / 275EP / 325EP / 365EP / 450EP	(Unlimited)
PBA-1191	(One [1] Per Zone)
PE-3 /3T	(15 Per Zone)
PE-11 /11T	–
S-121 /122	(15 Per Zone)

COMPATIBLE NON-SIEMENS FIRE SAFETY DETECTORS Also supports the following non-SIEMENS detector brands:	
▪ Air Products and Controls	▪ Edwards
▪ Apollo	▪ Electro Signal
▪ BRK	▪ Hochiki

NOTE: Refer to installation sheet or technical website for models and quantities supported. Contact manufacturer for listing information on non-SIEMENS models.

NOTICE – The information contained in this data-sheet document is intended only as a summary, and is subject to change without notice. The product(s) described here has/have a specific instruction sheet(s) that cover various technical, limitation and liability information. Copies of install-type, instruction sheets – as well as the *General Product Warning and Limitations* document, which also contains important data, are provided with the product, and are available from the Manufacturer. Data contained in the aforesaid type of documentation should be consulted with a fire-safety professional before specifying or using the product.

Any further questions or assistance concerning particular problems that might arise, relative to the proper functioning of the equipment, please contact the Manufacturer.

SIEMENS

Electrical Ratings

INITIATING CIRCUITS		
24V CURRENT DRAW: [STANDBY]	21.7 – 22.8 VDC	
SUPERVISORY CURRENT:	4mA per zone, max.	
ALARM CURRENT:	175mA per zone, max	100mA per zone, Max

POWER SUPPLY		
24V CURRENT [BACK PLANE]	0	
24V CURRENT [SCREW TERMINAL]	Supervisory 150mA + 8mA per zone, max.	Supervisory 110mA per zone, max.
	Alarm 110mA + 320mA per zone, max.	Alarm 110mA + 280mA per zone, max.
6.2V CURRENT [BACK PLANE]	150mA, max.	
24V CURRENT [STANDBY]	Supervisory 150mA + 8mA per zone, max.	Supervisory 150mA + 8mA per zone, max.
	Alarm 150mA + 320mA per zone, max.	Alarm 150mA + 280mA per zone, max.

Temperature and Humidity Range

Product is UL Listed for indoor dry locations within a temperature range of 120+/-3°F (49+/-2°C) to 32+/-3°F (0+/-2°C) and a relative humidity of 93+/-2% at a temperature of 90+/-3°F (32+/-2°C).

Details for Ordering

MODEL OR TYPE	PART NUMBER	PRODUCT
CDC-4	500-034200	Conventional Detector Card

Desigo® Fire Safety

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