Fire detection control panels

CA1000

DEF: 50 years of experience

50 years

1958   2008

CA1000 is the dedicated fire detection control panel for excellence. Notwithstanding its reduced size, the CA1000 provides all necessary performances for the safety of your system: power supply, microcontrollers based control unit and battery charger.
Moreover the CA1000 control panel offers various practical and surprising functionalities.

Compact solution

Equipped with an alphanumeric display specifically suited to the information provided by an addressed system, the CA1000 control panel also provides a serial port for the printer and remote display panels, and 5 freely configurable output relays.
The CA1000 control panel is able to archive the most recent 1.000 events in the non volatile memory, which can be printed at any time.

Priority for use

The CA1000 control panel offers various features designed for the commissioning of a fire detection security system. The self-learning feature allows automatic panel's configuration by obtaining the configuration data directly from the system.
The manual programming feature allows performing the system's commissioning without any additional tool.
Finally, TeleCA1000 software allows operating the advanced features of the system such as command group for alarm devices and safety actuators.

Simplified commissioning

Various alarm management modalities are available. For instance, management through the pre-alarm mode allows organising the safety procedures on the alarm levels.
The management through the "day/night" feature instead offers the possibility of handling the alarm information according to various modalities based on the working hours of the premises under surveillance.

Powerful alarm management modalities

By exploiting the interactivity offered by the new range of Orion detectors, the CA1000 control panel allows setting the alarm thresholds of the detectors by adapting them to the needs of the premises.
It is also able to signal the pollution level of the optical camera of the detectors, therefore allowing preventive maintenance of the smoke detectors.

Interactive operation

Certification:

CE

Application:

Public Buildings

Museums, castles, sport premises, schools, railway stations, socio-cultural centres, shops, shopping centres, restaurants and hotels, libraries, places of worships ...

Sites classified as environmental protection

Storage and transformation of wastes, ...

Industry and tertiary sites

Offices, stores, storage warehouses, refineries, transformation industries, ...

Residential buildings

Parking lots, covered hard standings ...

CA1000

CA1000 is a specific fire detection control panel, certified under EN 54-2 and EN 54-4.

CA1000 control panel is a reliable and easily operated device. Associated with the Orion interactive detectors range, CA1000 control panel constitutes a compact system, very simple to be activated.

Being equipped with 4 open lines or 2 loops, it fits to all types of sites and it's able to handle up to 128 devices.
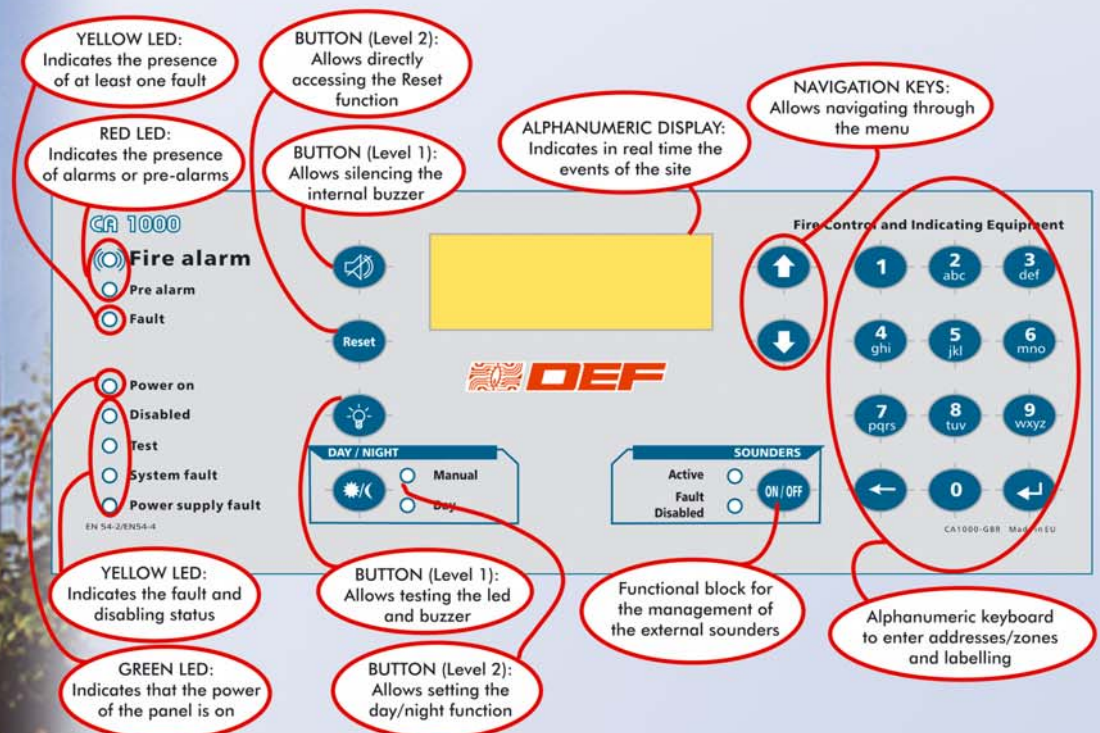
Designed for a wide range of applications, thanks to the interface modules that can be directly connected to the loop, CA1000 control panel also meets the requirements of tertiary buildings where the management of the security arrangements for the system could be requested.

The CA1000 control panel is equipped with several freely programmable outputs and also complies therefore with any industrial type application.

Given the large number of features available, specific attention was devoted to the development of performing tools so as to facilitate the commissioning. The self-learning of detection lines and the manual configuration are very useful ways of commissioning that makes the installation of the CA1000 system really quick and safe.

If necessary, the programming software TeleCA1000 allows configuring the advanced features and exploiting the full panel's capabilities: up to 99 detection zones and 99 command group or status repetition.

Operation

YELLOW LED:
Indicates the presence of at least one fault

RED LED:
Indicates the presence of alarms or pre-alarms

BUTTON (Level 2):
Allows directly accessing the Reset function

BUTTON (Level 1):
Allows silencing the internal buzzer

ALPHANUMERIC DISPLAY:
Indicates in real time the events of the site

NAVIGATION KEYS:
Allows navigating through the menu

YELLOW LED:
Indicates the fault and disabling status

GREEN LED:
Indicates that the power of the panel is on

BUTTON (Level 1):
Allows testing the led and buzzer

BUTTON (Level 2):
Allows setting the day/night function

Functional block for the management of the external sounders

Alphanumeric keyboard to enter addresses/zones and labelling

Technical specifications

General

Weight (without batteries):	3Kg
Dimensions:	H x L x P = 300 x 370 x 120mm
Housing material:	ABS 5V
Colour:	RAL 7035
Index of Protection:	IP31
Operating temperature:	from -10°C to +50°C
Operating relative humidity:	93% R. H.
Storage temperature:	from +10°C to 50°C
Storage relative humidity:	80% R. H.

Main electrical characteristics

Main power supply:	230Vac (-15%, +10%), 50Hz
Primary/secondary transformation rate:	230/30Vac
Autonomy:	72 hours in stand by and 30 minutes in alarm
Secondary power supply by 2 sealed lead batteries connected in series:	12V/7Ah
Auxiliary power supply:	supercap 5V, 1F
Backup duration:	> 7 days
Event and database memories:	non volatile (EEPROM)

Main functional characteristics

Number of zones:	99
Number of addresses:	128
Fire detection lines:	4 open or 2 loops
Fire alarm management:	pre-alarm/alarm, day/night function
Log management:	1.000 events with timestamp
Fire alarm output:	relay with changeover contact
General fault output:	relay with changeover contact
Programmable outputs:	5 relays on main board (12 optional on R12P2 card)
Programmable inputs:	2 for fault indication, class change or external command
Serial output:	for PC, printer or remote indicator panels
Output 24V:	400mA max, fuse protected
Sounders line output:	500mA max, 24Vdc
Certification:	CE, EN 54-2, EN 54-4