



# Alarm Control Unit

## Series 4000-12

### TECHNICAL INFORMATION

#### FEATURES

- frontal programming keypad
- highlighted LCD display
- internal clock
- programmable time slots
- 4 remote keypads can be connected
- watch-dog circuit
- 1000 programmable events
- printer output
- serial port for external connection
- relay output
- static output
- 20 passwords

#### SUITABLE TO PROTECT

- villas
- industrial buildings
- discounts
- museums
- churches
- storehouses



The 4000-12 Control Unit is designed for medium dimension Alarm Systems. It is able to control up to 12 lines of sensors with a terminated type of connection line. Any type of detector provided with a relay output can be connected to the Control Unit:

- passive infrared
- double technology
- microwave
- magnetic contacts
- temperature sensors
- gas sensors
- etc.

All the Control Unit functions are constantly controlled by an internal surveillance circuit able to detect all possible problems and faults.

Every detector connected to 4000-12 can be activated or deactivated.

The system can also be set up to work with customly programmed time slots to have an automatic switch-on in some times of the day and an automatic switch-off in others times of the day.

It is also possible to make the system work in partial mode, so that some zones are excluded from the detection.

All the Control Unit functions can be controlled from the frontal keypad and the highlighted LCD display.

Some simple functions can be activated by some other remote keypads ( max number = 4 - EV511 ).

The 4000-12 Control Unit is switched on/off with a password to be digitized on the keypad or with a Digital Code Electronic Key inserted in the special slots installed in various zones of the system.

Every event up to a maximum of 1000 like alarms, switch-on, switch-off, zone exclusions etc., is memorized in a single non-volatile memory and can be visualized on the display or printed with a Centronics parallel printer ( optional ) connected to the parallel port of the Control Unit.

A wide range of relay outputs and of static Open Collector outputs permit the communication between the Control Unit 4000-12 and the various external units like buzzers, leds or flashers, telephone diallers etc.

A complete dotation of leds together with the LCD display gives to the user a complete view of the system status and of the system events.



## GENERAL TECHNICAL DATA

- Linear stabilized power-supply 12V-2A protected over high voltages and currents
- Micro controlled system
- Highlighted LCD display
- Frontal programming keypad
- 1 on/off switch
- 1 reset jumper
- 5 signalling leds : circuit power-supply/Ac present, working mode, zone exclusion ( flashing ), fault, alarm
- 1 input for 4 Digital Electronic Key slots ( with 4.194.304 possible combinations )
- Control circuit of Control Unit work ( Watch-dog )
- 4 external keypads to be connected to the serial port
- 12 balanced line NC type inputs
- 1 input for day circuit ( tamper )
- 1 input for 24 hour circuit ( anti-robbery buttons )
- 1 relay output (  $I_{max}=50mA$  ) for the internal siren
- 1 output for a self-protected siren with positive hiding
- 3 internal voltage free relay outputs ( 4A/24V ) : 1 relay for the telephone dialler ( configurable ) and 2 generic configurable relays
- 1 Open Collector output (  $I_{max}=50mA$  ) for instantaneous alarm signalling
- 1 parallel printer port ( Centronics )
- 1 serial RS-485 port
- 1 internal buzzer with beeper function to signal fault or errors
- 1000 memorizable events
- Internal clock to program automatic switch on/off or to identify events
- Memory retaining of date, time, configuration and events ( minimum 10 years ) in case of power-supply absence
- 3 switch-on modes : total, partial and with time slots
- 2 programmable switch-off time slots for each day of the week
- Zones can be excluded or partialized
- False alarm and false fault immunity
- Possibility to exclude an input zone after nn ( 1->10 ) alarm cycles
- Possibility to set a delayed alarm ( 0->60 sec. ) for each input
- Possibility to define 5 input groups ( 1 for surveillance ) to exclude a group during the system functioning
- 45 configurable passwords : 2 for configuration/maintenance, 21 for various switch on/off combinations, 1 for anti-robbery switch-off, 20 for local exclusions and one for local surveillance exclusion
- Protection against pulling and cover opening
- Known faults : internal tamper activation and external keypad activation, keypad damaged, power-supply absence, bad power-supply voltage level, broken fuses, input cut or short-circuit
- System test : power-supply, input zones, tamper, 24h circuit, outputs ( relay and Open Collector ) and walk-test
- Automatic deactivation of LCD highlighting after 3 min. of inactivity
- Possible printings : all events, some particular events and Control Unit configuration
- Instantaneous event printing
- Electromagnetic immunity ( EMI ) : complaint with EN 50081-1, EN 50082-1 and IEC 801-2-3-4 norms
- Internal battery slot ( max 12V - 12Ah )
- Painted metal case
- Dimensions: 325x275x110 mm

