



DS80SC80-004B LBT80809

C402 / C404

Conventional Fire Detection
Control Panel with 2 and 4
zones

User Manual





DIRECTIVE 2012/19/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on waste electrical and electronic equipment (WEEE)

The symbol of the crossed-out wheeled bin on the product or on its packaging indicates that this product must not be disposed of with your other household waste.

Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment.

The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

The information contained in this document has been collected and controlled carefully. However, the company cannot be held responsible for any possible errors and omissions.

The company reserves the right to make, at any time and without warning, improvements and modifications to the products described in this manual.

In this manual, you may find references and information about products (hardware or software) or services not commercialized yet. These references and information do not imply that the company intends to commercialize these products and services.

Elkron is a trademark of URMET S.p.A.

All trademarks mentioned in this document belong to the corresponding owners.

All rights reserved. The total or partial reproduction of this document is authorised only for installation purposes of the System for C402 and C404 stations.

(((ELKRON)))

Tel. +39 011.3986711 – Fax +39 011.3986703

www.elkron.com – mail to: info@elkron.it

TABLE OF CONTENTS

1	GENERAL DESCRIPTION	4
1.1	INTRODUCTION.....	4
2	COMMANDS AND INDICATORS	5
2.1	KEYPAD.....	5
2.2	INDICATOR LIGHTS (LEDS).....	6
3	ACCESS LEVEL	7
3.1	ACCESS LEVEL 1.....	7
3.2	ACCESS LEVEL 2.....	7

1 GENERAL DESCRIPTION

1.1 INTRODUCTION

The fire detection control panels C402 and C404 control respectively up to 2 and 4 independent zones with a maximum of 32 devices per zone. Each circuit is considered as an zone and can be included or excluded via a keypad command.

The control panel has two outputs: a general alarm siren output, which is armed with at least one zone in alarm, and another one for general fault, which is armed when a fault condition is verified on the control panel or in the zone.







The general alarm siren output can be included or excluded via the keypad. Further relay outputs are available on the optional relay card.

It is possible, independently for each zone, to decide whether to notify the alarm condition when one (single knock) or more (double knock) devices detect an alarm.

2 COMMANDS AND INDICATORS
















2.1 KEYPAD

On the front side of the control panel there is a keypad with 8 keys, which allows the management of the control panel based on the active level of access (to select the access level 1 or 2 refer to the “level of access” paragraph). The description of each key is described below:

Key	Level of access 1	Level of access 2
	Press briefly to turn all the indicators on. Press for 2 seconds until the indicator  blinks to start the password entry procedure.	Press briefly to turn all the indicators on. Press for 2 seconds until the indicator turns off  to bring the control panel to an access level 1.
	Internal buzzer silencing and events acknowledgement.	Internal buzzer silencing and events acknowledgement.
	No action.	Puts the control panel in regular operating conditions by cancelling any alarm and/or fault condition.
	No action.	When the control panel is in alarm condition, briefly press to deactivate or re-activate the siren output. By pressing the key for 2 seconds, the siren output is included/excluded.
1	During the password entry procedure, number 1 is entered.	Includes or excludes the operation of zone 1. When the zone is excluded, the corresponding detection circuit is not power supplied.
2	During the password entry procedure, number 2 is entered.	Includes or excludes the operation of zone 2. When the zone is excluded, the corresponding detection circuit is not power supplied.
3	During the password entry procedure, number 3 is entered.	Includes or excludes the operation of zone 3. When the zone is excluded, the corresponding detection circuit is not power supplied.
4	During the password entry procedure, number 4 is entered.	Includes or excludes the operation of zone 4. When the zone is excluded, the corresponding detection circuit is not power supplied.

2.2 INDICATOR LIGHTS (LEDS)

The control panel is equipped with 24 LED indicators that allow the signalling of alarm, fault or exclusion events. The functional description of each indicator is described below.

Indicatore	Spento	Acceso	Lampeggiante
	The control panel is not power supplied.	The control panel is power supplied by the mains supply.	The control panel is power supplied by the batteries inside the unit.
	No alarm condition.	Fire and siren output alarm condition is armed.	---
	No active exclusion.	There is at least one exclusion in the control panel.	---
	No fault condition.	There is a fault condition in the control panel.	---
	No fuse fault.	One of the following fuses is in a fault condition: Field fuse Siren fuse Battery fuse	---
	No ground dispersion fault.	There is a ground dispersion fault condition in the control panel.	---
	No battery fault.	There is a battery fault condition in the control panel or the batteries are not present.	The batteries must be replaced.
	No fault on the battery charger.	The battery charger inside the control panel is in a fault condition.	---
	No system fault.	A fault has been detected on the program which runs on the control panel.	---
	No fault in the siren output.	The siren output is in a fault condition – end of line resistor is missing (open line).	The siren output is in a fault condition – output is in short circuit.
	No exclusion or silencing is affecting the siren output.	The siren output is excluded	The siren output is silenced
	Access level 1.	Access level 2.	Password entry procedure is active.
	Zone 1 ÷ Zone N The zone is not in alarm	Zone 1 ÷ Zone N If programmed in single knock mode, the zone is in alarm condition because at least one device has detected an alarm. If programmed in double knock mode, the zone is in alarm condition because two or more devices have detected an alarm.	Zone 1 ÷ Zone N Zone in a fire alarm condition, for single device in alarm with double knock mode.
	Zone 1 ÷ Zone N The zone is not in a fault condition	Zone 1 ÷ Zone N Zone in a fault condition – end of line resistor is missing in the detection circuit (open circuit)	Zone 1 ÷ Zone N Zone in a fault condition – detection circuit in short circuit
	Zone 1 ÷ Zone N Non-excluded zone	Zone 1 ÷ Zone N Excluded zone	---

N = 2 (for C402), 4 (for C404)

3 ACCESS LEVEL


Access levels are defined in the control panel for the protection from unwanted operation performed by non-authorised personnel.

To have complete control on the control panel, you must switch from the normal access level 1 to level 2.

3.1 ACCESS LEVEL 1


When the access level 1 is active in the control panel, it is possible to perform the following operations:


Indicator lights test

The  key starts the test of the indicator lights and the buzzer, in order to verify their correct operation.




Acquisizione e tacitazione buzzer

Acknowledge and buzzer silencing

The  key allows the silencing of the buzzer. The silencing of the buzzer acts on all the alarms or active faults when the key is pressed. This deactivates the buzzer. When new alarms or faults are verified, the buzzer will be activated again.


When the  indicator is off, the control panel is at access level 1; when the control panel is power supplied, access level 1 is activated.


3.2 ACCESS LEVEL 2

To enter the access level 2, press the  key and keep it pressed until the  indicator flashes, then press the keys 1÷4 to enter the password. If a valid password is entered, the  indicator will be ON permanently, indicating that the control panel is in access level 2 (preset password at the factory: 1,1,1,1).



When access level 2 is active in the control panel, it is possible to perform the following operations:

Siren output silencing and rearm





When the control panel is in an alarm condition with the siren output armed; by pressing the  key the siren is silenced; when pressing the key again the output is rearmed. If the siren is silenced, when an alarm condition from another zone is detected, the siren output is rearmed.

The indicator light  flashes when the siren output is silenced.

Faults/alarms reset


The  key cancels all the active fault and alarm conditions, placing the control panel in an idle condition. Also, the  key deactivates the siren output.

Siren output inclusion/exclusion



To exclude the siren output, press the  key and keep it pressed until the  indicator turns on. To include the siren output, press the  key and keep it pressed until the  indicator turns off.

The status of inclusion/exclusion is saved in the non-volatile memory; in case the control panel is turned off, when turning it on again the status is restored.

Zones inclusion/exclusion

To include or exclude the operation of every single zone, press the corresponding numerical key. When a zone is excluded from operation, the corresponding indicator  is on. The status of inclusion/exclusion is saved in the non-volatile memory; in case the control panel is turned off, when turning it on again the status is restored.

When a zone is excluded, the corresponding detection circuit is not power supplied.

When the intervention is completed, it is recommended to restore the control panel to its regular condition of operation with access level 1, pressing the  key and keeping it pressed until the  indicator turns off.

ELKRON

ELKRON

Tel. +39 011.3986711 - Fax +39 011.3986703
Milano: Tel. +39 02.334491- Fax +39 02.33449213
www.elkron.com – mail to: info@elkron.it

ELKRON is a trademark of **URMET S.p.A.**
Via Bologna, 188/C - 10154 Torino (TO) – Italy
www.urmet.com

MADE IN ITALY