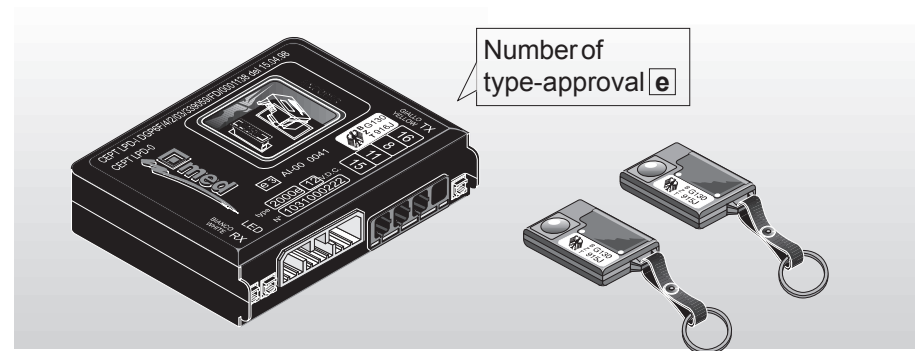




USER INSTRUCTIONS

med 2000.K



FULLY PROGRAMMABLE REMOTE CONTROL ALARM UNIT WITH:

- INTERNAL DIGITAL VOLUMETRIC RADAR SENSOR
- THAT CAN BE COMBINED WITH med IMMOBILIZERS IN THE CAR LINE
- UNIVERSAL CENTRAL LOCKING CONTROL
- SERIAL INTERFACE
- POSSIBILITY OF EXCLUDING LOST REMOTE CONTROLS
- SEALED PIN - CARD WITH PERSONAL CODE

CAUTION: THE med 2000.KB VERSION DOES NOT HAVE THE RADAR SENSOR



082316276

med s.p.a.
Via Raffaello, 33
42100 Reggio Emilia (Italy)



Code 08424.316.276 - 05/99

CONGRATULATIONS !!!



med, a leading company in vehicle protection, with this product is offering you the opportunity to provide your vehicle with a high level of protection together with the quality, reliability and service that have always distinguished our firm.

The addition of a specifically designed **med** IMMOBILIZER (the models currently available permit customized application on most of the vehicles on the roads) in addition to an immobilizer fitted as standard, makes it possible to take the SECURITY of your VEHICLE to the HIGHEST level.

CAUTION

The **med 2000.K** ALARM unit is supplied with two remote controls at European frequency and a PIN - CARD (similar to a credit card) with your personal code that permits EMERGENCY starting if the remote controls get lost.

For reasons of SECURITY your PIN - CARD has to be handed over to you in a sealed bag (page 13) with the label masking the code number intact.

- **NEVER LEAVE YOUR PIN - CARD IN THE CAR**
- **KEEP IT IN A SAFE PLACE**
- **TAKE OFF THE ADHESIVE COVERING THE NUMBER WITH 6 DIGITS ONLY IF NECESSARY**

1 / 2	MAIN SYSTEM FEATURES
3	WARNINGS
4	LEGEND OF SYMBOLS USED
5	ACTIVATING the system with the radar sensor active
6	ACTIVATING the system with the radar sensor excluded by the INSTALLER
7 / 8	ACTIVATING the system with temp. exclusion of window winding and radarsensor
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STANDARD USE OF THE med 2000.K SYSTEM

1 PULSE



SYSTEM ACTIVATION

PRESS THE REMOTE CONTROL BUTTON **ONCE** TO **ACTIVATE** THE SYSTEM.

CONFIRMATION OF ACTIVATION WITH SHORT SIGNALS OF:



CAUSES OF REJECTION ON PAGE 9

- INDICATORS
- LED (red warning light)
- TWO-TONE NOTES (with siren **SIR 027**)

1 PULSE



SYSTEM DEACTIVATION

PRESS THE REMOTE CONTROL BUTTON **ONCE** TO **DEACTIVATE** THE SYSTEM.

CONFIRMATION OF DEACTIVATION WITH **1** EXTENDED SIGNAL OF:

- INDICATORS
- LED (red warning light)
- TWO-TONE NOTES (with siren **SIR 027**)

MAIN FEATURES OF THE med 2000.K SYSTEM

||| SEQUE ▶

1. ALARM UNIT equipped with remote controls using a ROLLING-CODE personalized code number (the code number changes for each transmission) and ANTI-SCANNER protection to thwart any attempt at DEACTIVATING the system by copying the code used or sending in SEQUENCE all the possible combinations.
2. Fitted for controlling ALL **med** immobilizers in the car line.
3. ULTRASONIC RADAR equipped with ANTI-BLINDING and ANTI-MASKING function, automatic SENSITIVITY correction according to the characteristics of the vehicle, equipped with specific bi-directional sensors on the upright. (Except for the **med 2000.KB** version without the radar sensor).
4. Can be combined with "INTELLIGENT" peripheral devices (controlled by their own microprocessor) among which the internal RADAR SENSOR and the **SIR 027** siren (optional) with communication via coded digital SIGNALS and "SELF-DIAGNOSIS" function.
5. Alarms signalled visually with the vehicle's indicators and audibly with the self-powered siren **SIR 027** (optional) and the original horns, for attempts at breaking into the vehicle via radar, opening doors, bonnet, boot and attempts at starting.

MAIN FEATURES OF THE med 2000.K SYSTEM

◀ SEQUE |||

6. Supplied with sealed PIN-CARD with personal code number for EMERGENCY DEACTIVATION.
7. FULLY PROGRAMMABLE FOR COMPLETE CUSTOMIZATION of the SYSTEM.
8. Possible SYSTEM ACTIVATION with MOMENTARY EXCLUSION of window winding * and of the ultrasonic RADAR SENSOR EXTREMELY simply.
9. Service sound SIGNALS with the **SIR 027** digitally controlled siren (optional).
10. LED for multipurpose signals with integrated antenna.
11. Possibility of disabling lost or stolen remote controls with customized signalling if an attempt is made at using them.
12. Extremely low current draw to protect the vehicle's battery.

* WINDOW WINDING WITH **med AZC** WINDOW WINDER MODULE (optional)

PLEASE NOTE!!!

The instructions refer to a system that has been fully wired and installed.

1. If some parts have NOT been connected, OPERATION will be reduced.
2. Your PIN - CARD must be handed over to you in a SEALED BAG (page 13).
3. Push-buttons of doors, bonnet and boot must ALL BE CONNECTED.
4. The **med 2000.K** alarm unit needs to be installed inside the vehicle in an area protected against any infiltration of water or other liquids.
5. Installation MUST BE CARRIED OUT by QUALIFIED PERSONNEL.
6. The installer MUST issue an INSTALLATION CERTIFICATE, fully compiled and signed.

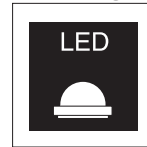
CAUTION: The **med 2000.KB** version has the same features but does not have the radar sensor.

med s.p.a. reserves the right to make any changes or technical modifications to the product at any time, WITHOUT prior notice thereof.

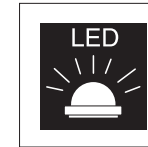
The **med 2000.K** alarm unit is supplied in various versions identified by the abbreviation following the name in order to adapt better to the vehicles on the market, e.g. **med 2000.Kx**. This booklet also uses the name **med 2000.K** for the **med 2000.KB** version without the radar sensor.

LEGEND OF SYMBOLS USED

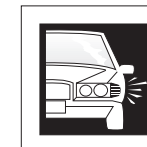
Visual signals:



LED OFF (RED LIGHT)



LED ON (RED LIGHT)



INDICATORS ON THE VEHICLE

Audible signals:

SERVICE SIGNALS PROVIDED BY THE BUZZER OF THE **SIR 027** (OPTIONAL)



SINGLE-TONE



TWO-TONE



TWO-TONE INCREASING



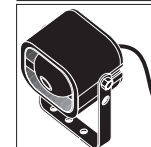
TWO-TONE DECREASING



musical scale

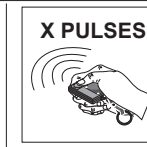


musical scale



Warning signals:

SELF-POWERED SIREN **SIR 027** (optional)



X PULSES

Controls to the alarm unit med 2000.K

PRESS THE REMOTE CONTROL BUTTON X TIMES



VEHICLE HORNS



IMMOBILIZERS med



locking doors



unlocking doors



closing windows



positioning windows

1 PULSE**SYSTEM ACTIVATION WITH RADAR SENSOR ACTIVE**

To **ACTIVATE** the system: press the remote control button with doors, bonnet, boot locked and ignition key OFF (instrument panel off).

CONFIRMATION OF ACTIVATION WITH 2 SHORT SIGNALS OF:

- **INDICATORS**
- **LED** (red warning light)
- **TWO-TONE NOTES** (with siren **SIR 027**)

**LOCKING****CLOSING WINDOWS****ACTIVATION**

FIXED (for the first few seconds)
FLASHING (afterwards)

CAUTION

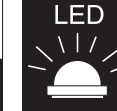
1. With ignition key ON (instrument panel on) the remote control is **IGNORED**
2. **ACTIVATION REJECTION** (page 9) for:
 - DOORS, BONNET AND BOOT OPEN
 - SYSTEM OUT OF SERVICE
 - REMOTE CONTROL DISABLED

1 PULSE**SYSTEM ACTIVATION WITH RADAR SENSOR EXCLUDED BY THE INSTALLER**

To **ACTIVATE** the system: press the remote control button with doors, bonnet, boot locked and ignition key OFF (instrument panel off).

CONFIRMATION OF ACTIVATION WITH 3 SHORT SIGNALS OF:

- **INDICATORS**
- **LED** (red warning light)
- **TWO-TONE NOTES** (with siren **SIR 027**)

**LOCKING****CLOSING WINDOWS****ACTIVATION****FLASHING** (afterwards)**CAUTION**

1. With key ON (panel on) the remote control is **IGNORED**
2. **ACTIVATION REJECTION** (page 9) for:
 - DOORS, BONNET AND BOOT OPEN
 - SYSTEM OUT OF SERVICE
 - REMOTE CONTROL DISABLED

ACTIVATING THE SYSTEM WITH TEMPORARY EXCLUSION OF WINDOW WINDING AND RADAR SENSOR



 1	<p>To be used when you want to leave the VEHICLE WINDOWS OPEN:</p> <p>TAKE THE WINDOWS TO THE DESIRED HEIGHT</p>
 2	<p>GET OUT OF THE VEHICLE</p>
 3	<p>LOCK THE DOORS</p>
<p>2 PULSES</p> 4	<p>ACTIVATE THE SYSTEM</p>

CAUTION

1. With key ON (instrument panel on) the remote control is IGNORED
2. ACTIVATION REJECTION (page 9) for:
 - DOORS, BONNET AND BOOT OPEN
 - SYSTEM OUT OF SERVICE
 - REMOTE CONTROL DISABLED

CONFIRMATION OF ACTIVATION WITH 4 SHORT SIGNALS OF:

	<p>LED</p>		<p>- INDICATORS - LED (red warning light) - TWO-TONE NOTES (with siren SIR 027)</p>
	<p>LOCKING</p>		
	<p>ACTIVATION</p>		
<p>LED</p>	<p>FLASHING</p>		

N.B. The 2nd pulse of the remote control must be sent before the end of the 2nd flash of the indicators (within 2 seconds of the 1st pulse).

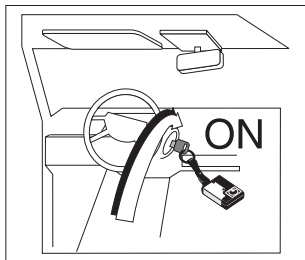
7 Window winding exclusion remains until the next time the system is ACTIVATED.

CAUSES OF REJECTION ON ACTIVATING THE SYSTEM

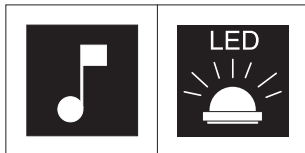


During ACTIVATION, the alarm unit runs a COMPLETE CHECK on the SYSTEM.

- If all turns out REGULAR, the alarm unit SELF-ADJUSTS and vehicle superintendence begins.
- If any IRREGULARITIES are found, they are highlighted as follows:

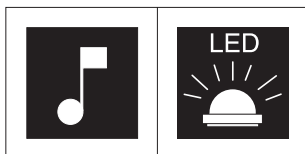


- REMOTE CONTROL IGNORED DUE TO KEY ON (PANEL ON)
NO SPECIFIC SIGNAL
- REMOTE CONTROL DISABLED



2 SHORT SIGNALS of BUZZER and LED

- SINGLE-TONE NOTES (with siren 027)
- LED (red warning light)



PUSH-BUTTONS OF DOORS, BONNET AND BOOT OPEN
IF CONNECTED to the ALARM UNIT instant INPUT:

3 SHORT SIGNALS of BUZZER and LED

- SINGLE-TONE NOTES (with siren 027)
- LED (red warning light)

REGULAR SYSTEM ACTIVATION followed by the ALARM after a few seconds if the PUSH-BUTTONS are connected to the TIME-LAGGED INPUT of the ALARM UNIT:

		SELF-POWERED SIREN - SIR 027
		- VEHICLE HORNS
		- INDICATORS
		- LED (red warning light)

- **SYSTEM OUT OF SERVICE:**

5 SHORT SIGNALS of BUZZER and LED

		- SINGLE-TONE NOTES (with siren SIR 027) - LED (red warning light)
--	--	---

For further information on the SYSTEM OUT OF SERVICE:
page 23.



SYSTEM DEACTIVATION

To DEACTIVATE the system: press the remote control button.

CONFIRMATION OF DEACTIVATION WITH 1 EXTENDED SIGNAL OF:

			<ul style="list-style-type: none"> - INDICATORS - LED (red warning light) - TWO-TONE NOTES (with siren SIR 027)
	UNLOCKING		
	DEACTIVATION		<p style="text-align: center;">CAUTION</p> <ol style="list-style-type: none"> 1. With automatic ACTIVATION of the IMMOBILIZER ACTIVE (page 18), after the selected time since DEACTIVATING the system, to start the vehicle it is necessary to REPEAT DEACTIVATION. 2. With ACCIDENTAL DEACTIVATION PREVENTION ACTIVE (page 25), after 40 seconds without the system detecting entry into the vehicle (ALARM), the SYSTEM is AUTOMATICALLY REACTIVATED.
	LED OFF (red warning light)		

ALARM MEMORIES

An alarm occurring with the system activated is signalled on DEACTIVATING the SYSTEM after the customary DEACTIVATION SIGNALS (page 11) with:

		SHORT SIGNALS SPACED APART
<ul style="list-style-type: none"> - SINGLE-TONE NOTES (with siren SIR 027) - LED (red warning light) <p style="text-align: center;">spaced apart and following the DEACTIVATION signal</p>		

	1 SHORT SIGNAL OF BUZZER + LED FOR:	<p>The SIGNAL indicates the 1st ALARM occurring throughout the system ACTIVATION time.</p> <p>It is CANCELLED by TURNING ON the key after DEACTIVATING the system.</p>
	DOOR, BONNET AND BOOT BUTTONS	
	2 SHORT SIGNALS OF BUZZER + LED FOR:	
	ATTEMPTED STARTING (KEY ON)	
	3 SHORT SIGNALS OF BUZZER + LED FOR:	
	RADAR SENSOR	
	5 SHORT SIGNALS OF BUZZER + LED FOR:	
	BLINDING OR MASKING RADAR SENSOR	

EMERGENCY DEACTIVATION

SEQUE▶

If there is no remote control it is anyhow possible to DEACTIVATE the system and START the engine by using the KEY to compose a specific **ON - OFF** SEQUENCE indicated by the PERSONAL CODE given in the **PIN - CARD** under the adhesive label with the SERIAL NUMBER. The OPERATIONS to CARRY OUT, also given on the back of the **PIN - CARD**, comprise:

1. DETACH THE LABEL FROM THE **PIN - CARD**: THIS WILL REVEAL THE PERSONAL CODE WITH 6 DIGITS.
2. WAIT FOR ANY ALARM SOUND SIGNALS TO STOP.
3. INSERT THE IGNITION KEY IN THE **OFF** POSITION.
4. TURN IT: **ON** (PANEL ON) AND **OFF**, WITHOUT ACTIVATING THE STARTER MOTOR FOR THE NUMBER OF TIMES INDICATED BY THE 1st DIGIT OF THE PERSONAL CODE (e.g. 3 indicates turning it three times ON - OFF, ON - OFF, ON - OFF in rapid succession).
5. WAIT FOR A SHORT FLASH OF THE LED (red warning light) IN CONFIRMATION.
6. REPEAT STEPS 4 AND 5 FOR THE REMAINING 5 DIGITS.

13

7. IF THE OPERATION TURNS OUT RIGHT THE ALARM UNIT WILL DEACTIVATE THE SYSTEM (page 11). THEN START THE ENGINE WITHIN 10 MINUTES.

8. **IF THE ENGINE STOPS THE SYSTEM STAYS DEACTIVATED FOR 10 MINUTES.** LONGER STOPS YOU NEED TO REPEAT THE SEQUENCE FROM POINT NUMBER 2.

IF THE OPERATION TURNS OUT WRONG (SHORT SET OF FLASHES) REPEAT THE

- PROCESS FROM POINT NUMBER 3., AS SOON AS THE SLOW FLASH RETURNS.
- **IF THE PROCESS IS BROKEN OFF** REPEAT IT FROM POINT NUMBER 3., AS SOON AS THE SLOW FLASH RETURNS.

N.B. The PROCEDURE described can be REPEATED INDEFINITELY. By using the PERSONAL CODE you also AUTOMATICALLY set AUTOMATIC ACTIVATION of the IMMOBILIZER to 10 minutes (page 18).

Using the remote control again, AUTOMATIC IMMOBILIZER ACTIVATION returns to its initial PROGRAM.

- **NEVER LEAVE YOUR PIN - CARD IN THE CAR**
- **KEEP IT IN A SAFE PLACE**
- **TAKE OFF THE ADHESIVE COVERING THE NUMBER WITH 6 DIGITS ONLY IF NECESSARY**

14

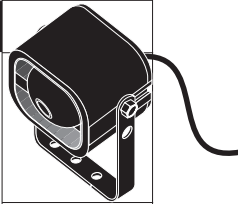
ALARM FUNCTIONS



If the alarm unit is ACTIVATED with the REMOTE CONTROL, the ALARM is signally by:



SELF-POWERED SIREN - SIR 027



- VEHICLE HORNS



- INDICATORS

- LED (red warning light)



OPENING ofdoors, bonnet or boot

(cycle of 25 seconds, can be deactivated with the remote control or EMERGENCY procedure).

- The ALARM cycle is NOT repeated if the door stays open.
 - The alarm is only repeated if the door is closed and reopened after the end of the cycle in course.
 - Unlimited number of ALARM cycles.
- The alarm unit has two separate inputs to detect alarms from push-buttons:
- INSTANT, on OPENING the door.
 - TIME-LAGGED for the first few secondsafter ACTIVATING the system, then INSTANTANEOUS.

KEY ON for at least 2 seconds

(cycle of 25 seconds, can be deactivated by turning the key OFF).

- The ALARM cycle is NOT repeated if the key stays ON.
- The ALARM cycle is ONLY repeated if the key is turned back onto OFF and then again left ON for at least 2 seconds.
- Unlimited number of ALARM cycles.

RADAR SENSOR

(cycle of 25 seconds, can be deactivated with the remote control or EMERGENCY procedure).

- The ALARM cycle is repeated after a pause of 5 seconds, if the cause of the ALARM persists continuously.
- Throughout the time of system ACTIVATION a total of at most 10 ALARM cycles signalled by the radar sensor are possible.

CAUTION:

If an ALARM triggers while another is already ACTIVE, the latter is IGNORED.

With the system at rest, if the AUTOMATIC IMMOBILIZER ACTIVATION triggers (page 18) only the IMMOBILIZER is activated along with the visual - audible signals for as long as the key is kept ON (provided it is longer than 2 seconds).




SELF-DIAGNOSIS

The **med 2000.K** ALARM UNIT has a "SELF-DIAGNOSIS" function. This check also includes the combined peripheral devices, especially "INTELLIGENT" ones that are controlled by their own microprocessor, such as the internal radar SENSOR and the **SIR 027** siren.

6 BEEPS of the BUZZER and **6 FLASHES** of the LED after the DEACTIVATION signal (page 11) indicate TROUBLE with the SYSTEM.

In this case, please CALL YOUR INSTALLER to check the SYSTEM.

The TROUBLE recorded by SELF-DIAGNOSIS is highlighted with **SHORT SIGNALS SPACED APART** of the BUZZER and LED

		<ul style="list-style-type: none">- SINGLE-TONE NOTES- LED (red warning light) spaced apart and following the DEACTIVATION signal
		<p>6 SHORT SIGNALS from BUZZER and LED for:</p> <p>TROUBLE FOUND BY SELF-DIAGNOSIS</p>

CAUTION!!! CALL YOUR INSTALLER

AUTOMATIC IMMOBILIZER ACTIVATION



INSTALLATION according to the EC DIRECTIVE 95/56 requires **AUTOMATIC IMMOBILIZER ACTIVATION, IF a medIMMOBILIZER is installed.**

OPERATION: ACTIVATION can then be set by the **INSTALLER.**

- A. IMMEDIATE**
- B. With a TIME-LAG of 5 minutes**
- C. EXCLUDED**

A. IMMEDIATE

- Door opening is followed by switching off the key.
- With a time-lag of 1 minute if a door is already open.

With automatic immobilizer **ACTIVE**, if the key is turned onto **ON** and you try to start the vehicle:

- The engine will **NOT** start, the **BUZZER** (with the **SIR 027** siren) will sound **CONTINUOUSLY** and the **INDICATORS** and **LED** will stay **ON STEADY**.
- Turning the key back onto **OFF** there will be some **SHORT SIGNALS** of the **BUZZER** combined with flashes of the **LED**.
- The **LED** is now flashing.

If the key is turned onto **ON** and you try starting:

- The engine will **NOT** start and the **LED** will stay **ON STEADY** until the key is turned **OFF**.

SEGUE ►

To start the engine it is necessary to **DEACTIVATE** the system with the remote control or to run the **EMERGENCY** procedure (page 13).

B. With a TIME LAG of 5 minutes

The time-lag for activating automatic immobilizer **ACTIVATION** is calculated from when the key is turned **OFF**.

- **Automatic IMMOBILIZER ACTIVATION is signalled by some SHORT SIGNALS OF THE BUZZER COMBINED WITH FLASHES OF THE LED.**

With automatic **IMMOBILIZER ACTIVE**:

A **PUSH-BUTTON ALARM** (for example, opening a door) causes the **LED** and the **INDICATORS** to come on and the **BUZZER** to **SOUND** continuously until the door is closed.

- The **SIGNAL** is repeated for at most 5 times and is then suspended.
- If the key is turned onto **ON** the door-open **SIGNALS STOP**.

If the key is turned onto **ON** and you try starting the vehicle:

- The engine will **NOT** start, the **BUZZER** will sound **CONTINUOUSLY** and the **INDICATORS** and **LED** will stay **ON STEADY**.
- Turning the key back onto **OFF** there will be some **SHORT SIGNALS** of the **BUZZER** combined with flashes of the **LED**.
- The **LED** is now flashing.

◀SEGUE

If the key is turned onto ON and you try starting:

- The engine will NOT START, the ALARM is ACTIVATED, FLASHING THE INDICATORS and the LED until the key is turned OFF.

To start the engine it is necessary to DEACTIVATE the system with the remote control or to run the EMERGENCY procedure (page 13).

CAUTION: Using the PIN - CARD with the secret emergency code always causes automatic IMMOBILIZER activation with a time lag of 10 minutes.

C. EXCLUDED

The automatic immobilizer activation option can be excluded by the INSTALLER, with the relevant PROGRAM, only if NO provision has been made for installing the **med** IMMOBILIZER.

CAUTION: If a **med** IMMOBILIZER has been installed, according to European EC Directive **95/56** AUTOMATIC IMMOBILIZER ACTIVATION CANNOT BE EXCLUDED.

DISABLING/RESETTING LOST REMOTE CONTROLS

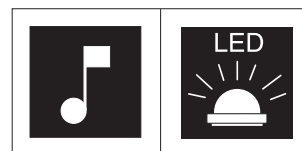
The **med 2000.K** alarm unit can handle up to 8 remote controls.

With this function it is possible to disable one or more remote controls that have been lost or stolen, keeping the system security level high.

With the same procedure it is possible to reactivate a remote control disabled by mistake.

If we try and use a disabled remote control:

2 SHORT REJECTION SIGNALS:



- SINGLE-TONE NOTES (with siren **SIR 027**)
- LED (red warning light)

The procedure to follow is given on page 27

CAUTION:

These functions are only possible **if at least one working and enabled remote control is available.**

Duplicates of remote controls requested from **med** through the installer are already enabled.

PROCEDURE TO ENTER PROGRAMMING

With the system DEACTIVATED and KEY turned OFF (panel off):

1. Turn the key ON (panel on) and OFF (panel off) 4 times in all (ON - OFF, ON - OFF, ON - OFF, ON - OFF) ending with the key OFF. At the end of this process, check the status of the LED and BUZZER:
 - If within 2 seconds there are no signals, wait at least 10 sec. and repeat point 1.
 - If the LED initially flashes then stays on STEADY and BUZZER emits an INTERMITTENT SIGNAL, the alarm unit has entered the PROGRAMMING phase.
2. With the LED ON STEADY, carry out the desired PROGRAMMING with the pulses of the remote control (with each valid pulse the LED goes out for approximately ½ second) and the BUZZER emits a BEEP.
3. After the first PROGRAMMING:
 - If with a short time lag the LED and BUZZER highlight the sequence indicated on the specific PROGRAMMING page, it is possible to set a NEW ONE.
 - If within 2 seconds there are NOT the envisaged signals, you need to REPEAT the PROGRAMMING from point number 2.
4. To end the procedure and make the set PROGRAMMING ACTIVE or to break off the procedure, turn the key ON (panel on) and OFF (panel off) once (ON - OFF) ending with the key OFF.

CAUTION

- It is only possible to access the PROGRAMMING PHASE with the system at rest (deactivated). If the power supply to the alarm unit is cut off, ALL the activated PROGRAMS stay in memory.

22

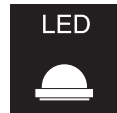
OPTIONAL PROGRAMMING FOR:

5 PULSES



SYSTEM OUT OF SERVICE

RECOMMENDED in the case of the CARY STAYING in a garage, car-wash or anywhere the vehicle does not need to be protected, so as not to leave the remote control in the car and avoid unintentional operation or incorrect operations by persons who are not familiar with the USE of the system.



- LED OFF DURING WARNING SOUND
- WARNING SOUND DECREASING

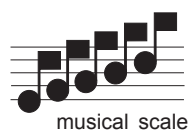
CAUTION: The system OUT OF SERVICE responds to the remote control with the rejection signal: (5 BEEPS and 5 LED flashes).

5 PULSES



RESETTING SYSTEM SERVICE

The SYSTEM programmed OUT OF SERVICE returns fully OPERATIVE keeping ALL the PROGRAMS made previously.



- LED OFF DURING WARNING SOUND
- WARNING SOUND INCREASING

procedure to enter PROGRAMMING: page 22

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OPTIONAL PROGRAMMING FOR:

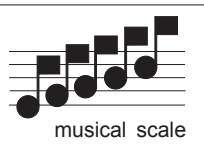
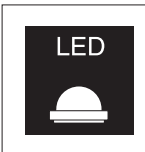
7 PULSES



CUSTOMIZING THE SOUND OF THE SIREN IN AN ALARM WITH SIR 027

This PROGRAMMING makes it possible to CUSTOMIZE the SOUND sequence of the **SIR 027** SIREN during the ALARM CYCLE.

The SOUND can be varied as preferred between the two different CONFIGURATIONS available.

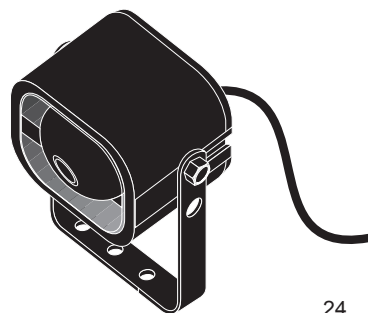


- WARNING SOUND INCREASING
- LED OFF DURING WARNING SOUND

The LED and the CONTINUOUS BEEP come back on to indicate PROGRAMMING. Each PULSE of the remote control corresponds to a CHANGE in the sound of the BUZZER and the STATUS of the LED (ON or OFF), indicating the different sound set throughout the ALARM cycle.

CAUTION:

- The sound sequence set HOLDS until the same procedure is REPEATED to vary it, or the system is RESET by the installer.
- PROGRAMMING is NOT CUT OFF during execution.



RECOMMENDED PROGRAMMING FOR:

9 PULSES



ACCIDENTAL DEACTIVATION PREVENTION

After ACTIVATING this function, every time the system is deactivated with the REMOTE CONTROL but no one gets into the car within 40 seconds, the entire system is automatically reactivated.



- BASS/TREBLE TWO-TONE SIGNAL (BEEP)
- FLASHING LED (red warning light)

N.B. Push-buttons of doors, bonnet and boot MUST be connected to avoid unwanted SYSTEM reactivation. ACTIVATION of this function

protects against unwanted operation of the remote control.

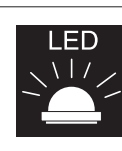
9 PULSES



ACCIDENTAL DEACTIVATION PREVENTION EXCLUSION

This permits DEACTIVATING this additional PROTECTION.

STANDARD SETTING



- TREBLE/BASS TWO-TONE SIGNAL (BEEP)
- FLASHING LED (red warning light)

OPTIONAL PROGRAMMING FOR:

11 PULSES



**PERMANENT EXCLUSION OF SOUND SIGNALS
ACTIVATION / DEACTIVATION WITH SIR 027**

PROGRAMMING makes it possible to DISABLE the SOUND SIGNALS when ACTIVATING and DEACTIVATING the SYSTEM, keeping the visual signals with the LED and indicators, if they are not being controlled by the vehicle.



- TREBLE/BASS TWO-TONE SIGNAL (BEEP)
- FLASHING LED (red warning light)

CAUTION:

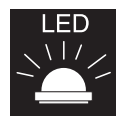
ALL the OTHER SERVICE SIGNALS stay ENABLED: ALARM MEMORY, PROGRAMMING, etc.

11 PULSES



**RESETTING SOUND SIGNALS FOR
ACTIVATION / DEACTIVATION WITH SIR 027**

This REACTIVATES the sound signals when activating and DEACTIVATING the SYSTEM.



- BASS/TREBLE TWO-TONE SIGNAL (BEEP)
- FLASHING LED (red warning light)

STANDARD SETTING

procedure to enter PROGRAMMING: page 22

PROGRAMMING FOR:

13 PULSES



DISABLING/RESETTING LOST REMOTE CONTROLS

PROGRAMMING makes it possible to DISABLE REMOTE CONTROLS THAT HAVE BEEN LOST or STOLEN. For further information, see page 21.

- Enter programming.
- Press the enabled remote control button **13 times**:



musical scale

- LED OFF DURING WARNING SOUND
- WARNING SOUND DECREASING

- At the end of the signals, press the button of an enabled remote control **in sequence** and wait:

2 PULSES



CONFIRMATION 1 SHORT SIGNAL

FROM BUZZER AND LED GOES OUT



- After the confirmation signal, repeat the process with all the remote controls that are active, or to be enabled, starting with the remote controls already enabled; for each remote control: (2 pulses).

- At the end, turn the key **ON - OFF** once.

procedure to enter PROGRAMMING: page 22

SUMMARY OF POSSIBLE PROGRAMMING

If the power supply to the **med 2000.K** alarm unit is cut off, the set PROGRAMS stay in memory.

No. of pulses	DESCRIPTION	page
5	OUT OF SERVICE	23
5	RESTORING SERVICE	
7	CUSTOMIZING THE SOUND OF THE ALARM SIREN WITH SIR 027 (OPTIONAL)	24
9	ACCIDENTAL DEACTIVATION PREVENTION	25
9	ACCIDENTAL DEACTIVATION PREVENTION EXCLUSION	
11	PERMANENT EXCLUSION OF SOUND SIGNALS FOR SYSTEM ACTIVATION / DEACTIVATION	26
11	RESETTING SOUND SIGNALS FOR ACTIVATION / DEACTIVATION OF SYSTEM WITH SIR 027 (OPTIONAL)	
13	DISABLING/RESETTING LOST REMOTE CONTROLS	27



procedure to enter PROGRAMMING: page 22

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REMOTE CONTROLS

The **med 2000.K** alarm unit can handle up to 8 remote controls at the same time.

2 are supplied in the package, the other 6 can be requested through the installer, following a specific procedure to **GUARANTEE** the **UTMOST SECURITY** of the operation. Each transmitter has its own specific code with a **ROLLING - CODE** (the code transmitted changes for each transmission) and an **ANTI-SCANNER SCANNER** function to **THWART** any **ATTEMPT** at **DEACTIVATING** the system by sending code numbers in sequence or copying ones already sent. By specific programming it is also possible to disable remote controls that have been lost or stolen.



RADAR SENSOR

The **med 2000.K** alarm unit has the latest generation **RADAR** controlled by a specific **MICROPROCESSOR**, to **GUARANTEE** a high level of sensitivity, immunity from false alarms and vehicle protection with low **POWER CONSUMPTION**.

On **ACTIVATING** the **SYSTEM**, during the first few seconds, it runs a full **CHECK** on its operation, the sensors and all the parameters corresponding to the vehicle in which it is installed. During **OPERATION**, all these parameters are **CONSTANTLY** updated to distinguish between actual alarms and **FALSE SIGNALS**.

Version: **med 2000.KB** without radar sensor.

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LOWER POWER CONSUMPTION

To LIMIT power consumption as much as possible and protect the vehicle's battery, the alarm unit is PROGRAMMED to exclude the RADAR sensor after 3 days of ACTIVATION WITH NO ALARMS.

On detecting an ALARM from PUSH-BUTTONS or the IGNITION KEY, the RADAR SENSOR is REACTIVATED again.

Version: **med 2000.KB** without radar sensor.

FLAT BATTERY

In combination with the **SIR 027** siren, the alarm unit has a special sensor to check the charge of the vehicle's battery.

If the battery slowly discharges due to the lights or other devices staying on, the immobilizer stays ACTIVE (provided it was activated beforehand **while the SIR 027** siren is automatically disabled.

To start up the engine it is first necessary to recharge the battery or hook up a second one, following the vehicle manufacturer's instructions. Then deactivate the system with the remote control or the EMERGENCY procedure and start up the engine.

N.B. If the alarm unit supply cables or connecting cables for **SIR 027** are cut with the system activated, the siren nonetheless runs the ALARM cycles envisaged by the European EC Directive **95/56**.

TERMS OF WARRANTY

ALARM UNIT

TECHNICAL WARRANTY runs for 12 months as of the date of installation, ex works, for parts considered defective at the unquestionable judgement of **med**.

This form of cover EXCLUDES external labour costs and all other burdens by whatever right.

WARRANTY, acknowledged only for appliances whose duly compiled INSTALLATION CARD has been received, is automatically forfeit in the case of damage due to faulty installation, tampering, improper use of the system or part of it, combination with devices for which NO provision has been made, or infiltration of liquids. Installation MUST BE CARRIED OUT by QUALIFIED PERSONNEL.

REMOTE CONTROLS

TECHNICAL WARRANTY runs for 36 months as of the date of manufacture, ex works, for parts considered defective at the unquestionable judgement of **med**. WARRANTY is forfeit if the outer casing has broken or if attempts have been made to open it.

MAINTENANCE

The **med 2000.K** ALARM UNIT needs NO MAINTENANCE.

CLOSING POWER WINDOWS:

With the remote control it is possible to lock the car doors and close the windows from a distance.

If the remote control has door locking followed by window closing, this may be a hazard for people and animals as the driver is not in control.

It is therefore essential for the **+maximum force of closing** the windows to be adjusted in order to exclude extreme events.

Some car manufacturers equip their lifting system with a force limiting device specifically for this purpose. Other manufacturers adopt procedures making it necessary for the driver to be present so as to guarantee control.

If you wish to activate window closing automatically after door locking and the car is not fitted with **"maximum force limiters"**, even if it has the "COMFORT" system, use the **med AZC** window winder module equipped with the **"force limiter"** (adjusting it appropriately, as per the instructions).

The **med AZC** window winder module has an **adjustment** to limit the **"maximum force of lifting"** to the values strictly necessary to lift the windows, finalized at user safety and avoiding accidents when winding up.

The **med AZC** window winder module is designed to control automatic closure of two power windows on all vehicles with a system operating at 12 Volts.

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TECHNICAL SPECIFICATIONS

Supply voltage	: 12 V DC
Current draw mean values	: at rest : 7 mA
(version with RADAR sensor)	: with system activated : for the first 3 days 15 mA : for the following days 10 mA
med 2000.KB (without RADAR sensor):	10 mA
Protection	: polarity reversal : shorting on all wires : LOAD DUMP (current peak generated after battery disconnection while travelling)
Electromagnetic compatibility	: According to EC Directive 95/54
Temperature range	: from - 40° C to + 85° C
Positioning	: in the car (in a protected position)
Protection	: IP 40 (IEC 529 1989) - DIN 40050 - EN 60529
TRANSMITTERS	
Temperature range	: from - 20° C to + 85° C
Battery operating time	: approximately 5 years
Protection	: IP 67 (IEC 529 1989) - DIN 40050 - EN 60529

Type approvals:

The **med 2000.K** and **med2000.KB** alarm units have been type approved in accordance with the following directives: - European EC Directive **95/56** on operation and safety of immobilizers and alarm systems with No. **e3 AI-00 0041**.

- European EC Directive **95/54** on electromagnetic interference.
- The Italian Ministry of Post and Telecommunications with number: DGP GF/4/2/03/339059/FO/0001138.

The transmitters conform with the technical requirements set down in the standard **I-ETS 300-220** for appliances with a built-in antenna, as recommended by the recommendation **CEPT T/R 01-04**.

They are therefore type approved in:

- Italy **CEPT LPD-I**
- 33 - Germany **CEPT LPD-D**