

English

ATTENTION!

CM 120 R

This manual should be read carefully.
The contents thereof are subject to change.



Rev. D 10/2004

18020365

INSTALLATION AND PROGRAMMING MANUAL



Guarantee

During the guarantee period the manufacturer shall, at its sole discretion, replace or repair any defective product when it is returned to the factory. All parts replaced and/or repaired shall be covered for the remainder of the original guarantee, or for ninety (90) days, whichever period is longer. The original purchaser shall immediately send manufacturer a written notice of the defective parts or workmanship, which written notice must in all cases be received prior to expiry of the guarantee.

International Guarantee

Foreign customers shall enjoy the same guarantee rights as those enjoyed by any customer in Bulgaria, except that manufacturer shall not be liable for any related customs duties, taxes or VAT, which may be payable.

Guarantee Procedure

This guarantee will be granted when the appliance in question is returned. The manufacturer shall accept no product whatsoever, of which no prior notice has been received.

Conditions for waiving the guarantee

This guarantee shall apply to defects in products resulting only from improper materials or workmanship, related to its normal use. It shall not cover:

- § Damages resulting from transportation and handling;
- § Damages caused by natural calamities, such as fire, floods, storms, earthquakes or lightning;
- § Damages caused by incorrect voltage, accidental breakage or water; beyond the control of the manufacturer;
- § Damages caused by unauthorized system incorporation, changes, modifications or surrounding objects;
- § Damages caused by peripheral appliances (unless such peripheral appliances have been supplied by the manufacturer);
- § Defects caused by inappropriate surrounding of installed products;
- § Damages caused by failure to use the product for its normal purpose;
- § Damages caused by improper maintenance;
- § Damages resulting from any other cause, bad maintenance or product misuse.

In the case of a reasonable number of unsuccessful attempts to repair the product, covered by this guarantee, the manufacturer's liability shall be limited to the replacement of the product as the sole compensation for breach of the guarantee. Under no circumstances shall the manufacturer be liable for any special, accidental or consequential damages, on the grounds of breach of guarantee, breach of agreement, negligence, or any other legal notion.

Waiver

This Guarantee shall contain the entire guarantee and shall be prevailing over any and all other guarantees, explicit or implicit (including any implicit guarantees on behalf of the dealer, or adaptability to specific purposes), and over any other responsibilities or liabilities on behalf of the manufacturer. The manufacturer does neither agree, nor empower, any person, acting on his own behalf, to modify or alter this Guarantee, nor to replace it with another guarantee, or another liability with regard to this product.

Unwarranted Services

The manufacturer shall repair or replace unwarranted products, which have been returned to its factory, at its sole discretion under the conditions below. The manufacturer shall accept no products for which no prior notice has been received.

The products, which the manufacturer deems repairable, will be repaired and returned. The manufacturer has prepared a price list and those products, which can be repaired, shall be paid for every repaired appliance. The closest equivalent product, available at the time, shall replace the products manufacturer deems un-repairable. The current market price shall be charged for every replaced product.

GENERAL SPECIFICATIONS

CM120R in combination with SR200R offers you a good solution to control the siren without wires for any conventional alarm control panel.

CM120R can work with two outdoor sirens, two indoor sirens, or one outdoor and one internal siren simultaneously.

Wireless link distance..... up to 200 m outdoor

Power supply..... 6 to 15 V

Consumption..... 25 to 60 mA

Temperature range..... -40 to +70 °C

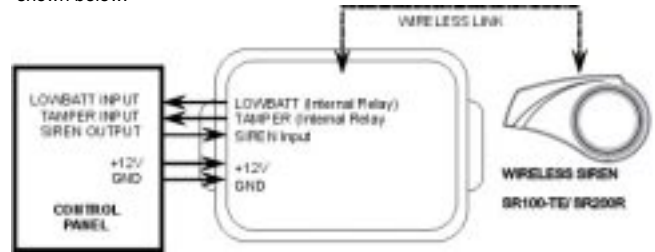
Digital input..... LOW level (0V – 0.5V)

HIGH level (3.6V – max 15V)

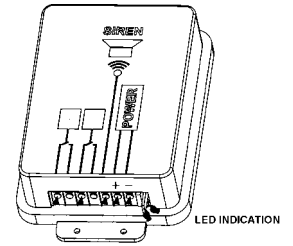
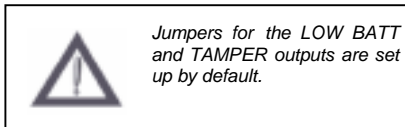
Outputs..... Two dry relay outputs for Low Battery and Tamper faults;
100mA/100V AC/DC, max 10ohm serial resistance
N.C./N.O. configurable (see Installation, 5. for jumper description)

INSTALLATION

1. After installation is completed, the wireless sirens SR200R or SR100TE should be connected to a control panel by means of a universal CM120R as shown below.



2. Connect inputs and outputs as indicated on the cover.

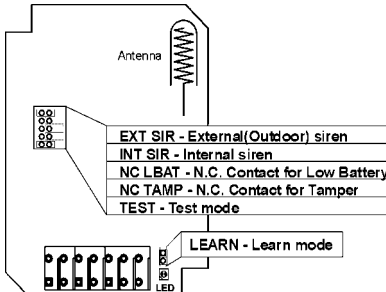


3. Press back the orange plastic clamp with a screwdriver, feed the cable into the corresponding hole, and release the clamp to fix the cable into position.

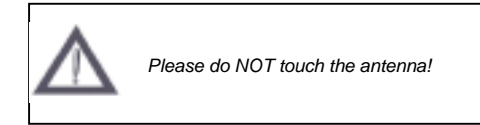


4. To program and configure the control module delete the siren address according to the siren installation manual.

5. Remove the control module unit cover to reveal the printed circuit board. The functions of the jumpers are as follows:



- LEARN** – used to set up a siren device (see Learn Mode).
- ExtSir** – ON for an outdoor siren.
- IntSir** – ON for an internal siren.
- NC LBatt** – LowBatt relay output – ON for N.C. contact /Off for N.O. contact.
- NC Tamp** – Tamper relay output – ON for N.C. contact /Off for N.O. contact.
- TEST** – ON for RF Test Mode.



6. For LED-indicated events refer to the table below:

Mode	Operating Mode	Learn Mode	Test Mode
Red flash	data sent	at intervals of 1 sec.	data sent
Green flash	data received	data received	data received
Buzzer	short beep when Input is activated	short beep—data received from a set up SR100TE/SR200R Long beep—data received from an SR100TE/SR200R that has not been set up	short beep—Input is activated. 0 to 5 beeps—strength of the RF-signal

LEARN MODE

1. To set up a siren to the CM120R control module enter Learn Mode by putting ON jumper LEARN and removing ExtSir and IntSir jumpers. Then put ON the jumper that corresponds to the siren you wish to set up, i.e. ExtSir to set up an external, OR IntSir—an internal siren. CM120R is in Learn Mode now and the LED is blinking RED and short beep from the buzzer.
2. Put SR100TE/SR200R in Learn Mode. Power-up the SR100TE/SR200R. The LED will blink fast in red for 5 seconds. During these 5 seconds close the TAMPER of the siren 3 times.
3. SR100TE/SR200R will send identify itself to CM120R and after receiving proper instructions will flash GREEN for half a second.
4. SR100TE/SR200R is set up now and will remain in RF-test mode until Tamper is closed for longer than 5seconds.
5. To add another siren, change siren jumpers and repeat steps 2—4.
6. To exit Learn Mode remove the LEARN jumper.
7. Put the respective ExtSir or IntSir jumper on.

POWER OFF MODE

1. Power OFF state (with no power supply):
2. During the transportation or storage period SR100TE/SR200R should be in Power-OFF state.



It is NOT necessary SR100TE/SR200R or CM120R to be set up again, even after being in Power-OFF state for long time.

TEST MODE

Test the RF link between CM120R and SR100TE/SR200R in Test Mode.

1. To put CM120R in Test Mode and test the radio link simply remove the LEARN jumper (if not already removed) and put on the TEST jumper. Make sure the ExtSir (or IntSir) jumper is on.

*SR100TE/SR200R (when in Test Mode) will indicate received data with 1 to 3 green flashes.
CM120R (when in Test Mode) will indicate every received message with 1 to 5 buzzer signals.*

2. Send messages from the SR100TE/SR200R by closing the TAMPER shortly and count the green flashes. Two or three flashes indicate a good RF-link.
3. (Optional) Send ON/OFF messages from the CM120R by close/open the Input and count the buzzer beeps. Three to five beeps stand for a good RF-link. If the flashes and beeps are less than 2, it is necessary to mount the siren in a different place.
4. To finish the tests put the siren cover back on. Make sure the TAMPER switch is closed.
5. Remove the TEST jumper of the CM120R. The module is now in Operating Mode and will work with SR100TE/SR200R depending on the ExtSir/IntSir jumpers configuration.

OPERATING MODE

1. In this mode only ExtSir/IntSir jumpers are ON in a CM120R that is properly connected to a control panel.



If some of the siren jumpers in the control module is off, CM120R will behave as the corresponding siren is bypassed, i.e. commands will not be send, nor will faults be generated.

However, messages from the siren will be acknowledged and indicated.

2. If a LOW BATT message is received from a siren (outdoor or internal), CM120R will switch the LOW BATT RELAY output regardless of the NC LBatt jumper state. (see jumper configuration description).
3. If a TAMPER message is received from a siren (outdoor or internal), CM120R will switch the TAMPER relay output regardless of the NC Tamp jumper state (see jumper configuration description).
4. When two sirens (one outdoor and one internal) are used with one CM120R, determine which one is in TAMPER or LOW BATT state by removing the corresponding jumper (ExtSir for an outdoor and IntSir for an internal siren). This will eliminate the event state (TAMPER or LOW BATT) of the corresponding siren and will restore the relay.

5. Both sirens (SR200R/SR100TE) can work for at least one more month after a LOW BATT event is detected.

6. To replace a siren battery, remove the old one and insert a new one after opening the TAMPER. The LED will blink in red for 5 seconds. During this period do not touch the TAMPER. After the LED stops blinking the siren will enter RF Test Mode. Carry out the test and if the outcome is satisfactory, mount the siren on the wall.



The set-up procedure needs NOT be repeated after battery replacement.

TROUBLESHOOTING

1. CM120R

Problem	Indication	Solution
Power is turned on but the unit does not work.	No short beep from buzzer; the LED does not blink in red.	Make sure the module is properly connected to the control panel.
The siren does not sound when the module is activated.	The buzzer beeps and the LED blinks in red every 3 seconds.	Make sure the siren battery is turned on. If the siren battery is on, check the alarm panel for a LOW BATT message. If there is no LOW BATT message, perform a new radio test in Test Mode (see above).
	No short buzzer beep; the LED does not blink in red during transmission.	Check the command module's connection to the alarm panel. If the module is connected properly, make sure the ExtSr/IntSr jumper is on and the LEARN jumper is off.
TAMPER message.		Check whether the tamper is closed.
LOW BATT message.		Change the battery.
No indication on the alarm panel for a TAMPER or LOW BATT event.		Check the module relay output connection to the alarm panel. Where the relay outputs used are set for an N.C. contact, make sure the NC Tamp and NC LBatt jumpers are on.

2. SR100TE/SR200R

Problem	Indication	Solution
The siren does not work when the battery is on.	No blinking red LED indication for 5 seconds.	Check whether the battery is on.
The siren does not sound.	No blinking red LED indication.	Make sure the ExtSr/IntSr jumper on the CM120R module is on and the LEARN jumper is off. If the jumper configuration is correct, a short buzzer beep and the LED blinking in red every 3 seconds must indicate the CM120R is activated. With the CM120R on, carry out a new radio test in Test Mode (see above).
The siren does not sound.	The LED blinks in red.	Check if the speaker is connected.
The siren sounds, but there is no flash indication (SR200R only).	The LED blinks in red.	The flash indication is out of order.
The siren does not stop sounding.	The LED blinks in red.	Make sure the CM120R command module is properly turned on and off by the alarm panel. If the CM120R is properly turned on and off repeat the radio test in Test Mode.