

ATX2/S PIEZOELECTRIC INDOOR SIREN WITH BUILT-IN TRANSCEIVER TO CONTROL UP TO 8 OUTDOOR WIRELESS SIRENS.

General Description.

Piezoelectric siren with an integrated transmitting section able to control up to **8 wireless sirens** and a receiving section able to manage all information coming from the memorized sirens. The transmitting section consist in two control inputs (**alarm input and on/off input**) to be connected to the main , a button (**P1**) which transmits continuously, if pressed, the codes to be memorized on the sirens or, (if keeping it pressed during the power-on) to generate or modify this code.

The receiving section is composed by a **7 segments display, 3 signaling, 3 logical outputs and the button P2**. The display allow to show from 1 to 8, which siren is signaling a problem.

The **3 led** allow to visualize the kind of anomaly detected on the sirens: **tamper alarm DL1, missing supervision DL2 and low battery level DL3**.

The tamper led is reset with the main activation while the other two are reset when battery or radio signal are restored. If anomaly is detected on more than one siren, the display starts to cycle, displaying for 2 seconds the number of siren, while the 3 led show the type of anomaly noticed.

Button P2 is used to access programming, memorize siren codes and exit programming.

The sequence is the following:

See the manual of wireless siren to learn about ATX2/S programming:

Description of outputs, inputs and buttons

Input ON/OFF

Terminal no.3 input to be connected to the ON/OFF output of the control panel. When going to LOW level (GND) for more than a second, there is a system ON transmission for 2 seconds. This is indicated with the letter "A" on a display, four flashes of the siren's beacon and 1 LED blinking during the whole period of the low condition. When it returns to HIGH level for more than a second, there is a 2 second system OFF transmission, and the siren's beacon lights up for about 10 seconds.

Terminal no. 4 input to be connected to the ON/OFF output of the control panel. When going to HIGH level (12 VDC) for more than a second, there is a system on transmission for 2 seconds. This is indicated with the letter "A" on a display, four flashes of the siren's beacon and LED 1 blinking during the whole period of the high condition. When it returns to LOW level for more than a second, there is a 2 second system OFF transmission, and the siren's beacon lights up for about 10 seconds

ALARM Input

Terminal no. 5 input to be connected to the alarm output of the control panel. When going to LOW level (GND) for more than a second, there is an alarm transmission to the siren for 2 seconds. Immediately after this, a modulated output gets activated and the piezoelectric indoor siren will sound too. Sound modulation goes from 2600 and 3600 Hz. Siren remains activated until alarm input returns to HIGH level. When it returns to HIGH level, after a second, the piezo-electric siren stop to sound and there is a 2 second transmission that keeps the radio sirens.

Terminal no. 6 input to be connected to the alarm output of the control panel. When going to HIGH level (12 VDC) for more than a second, there is an alarm transmission to the siren for 2 seconds. . Immediately after this, a modulated output gets activated and the piezoelectric indoor siren will sound too. Sound modulation goes from 2600 and 3600 Hz. Siren remains activated until alarm input returns to LOW level. When it returns to LOW level, after a second, the piezo-electric siren stop to sound and there is a 2 second transmission that keeps the radio sirens silent.

TAMPER Output (terminal no. 7 and no. 8)

This relay output (with normal closed contact) collects all tamper indications from the memorized sirens. When a tamper transmission is received from one of the sirens, the output opens for 2 seconds. The display and the **tamper LED DL1** memorize and display the event. This condition persists until the next arming of the control panel.

Supervision Terminal no.9

This open collector output collects lack of supervision signals from all memorized sirens. If no supervision signal is received from the memorized sirens in 3 hours, this output is switched to low level. The display and the **supervision LED DL2** display and memorize the event. This condition persists until the resolution of the problem causing the event.

LOW BATT output Terminal no. 10

This open collector output collects all low battery events from the memorized sirens. When a low battery transmission arrives from one of the memorized sirens, the output is switched to low level. The display and the **low battery LED DL3** display and memorized the event. This condition persists until the flat batteries of the siren are replaced.

Pulsante P1

This button allows to transmit constantly a radio signal to be memorized on the outdoor sirens.

In this phase, the display shows the letter "t" flashing.

During programming it is used to delete a siren code. During power-on (first start-up) it generates a new 16-bit code.

In this phase it displays horizontal dashes in continuous rotation.

Pulsante P2

This allows to access programming, select the 8 zones to be memorized and to exit programming.

Description of the terminal board

Terminal no. 1	Positive power supply 13.6 VDC
Terminal no. 2	Negative power supply GND
Terminal no. 3	ON/OFF input for negative signals (0 V equals control panel ARM)
Terminal no. 4	ON/OFF input for positive signals (12 V equals control panel ARM)
Terminal no. 5	ALARM input for negative signals
Terminal no. 6	ALARM input for positive signals
Terminal no. 7 and no.8	TAMPER (relay NC 100 mA)
Terminal no. 9	SUPERVISION negative output max 30 mA
Terminal no. 10	LOW BATTERY negative output max 30 mA
Terminal no. ANT TX	Output for receiving antenna
Terminal no. GND	
Terminal no. ANT RX	Input for receiving antenna

Technical Features

Nominal operating voltage	= 12 Vcc
Stand-by absorption	= 20 mA
In alarm absorption	= 100 mA
Piezo-electric siren frequency	= da 2600 Hz a 3600 Hz
Transmitting frequency	= 433.92 Mhz with ASK (10mW) modulation
Receiving frequency	= 433.92 Mhz with ASK superheterodyne receiver
Operating temperature	= from +5°C to + 40°C

