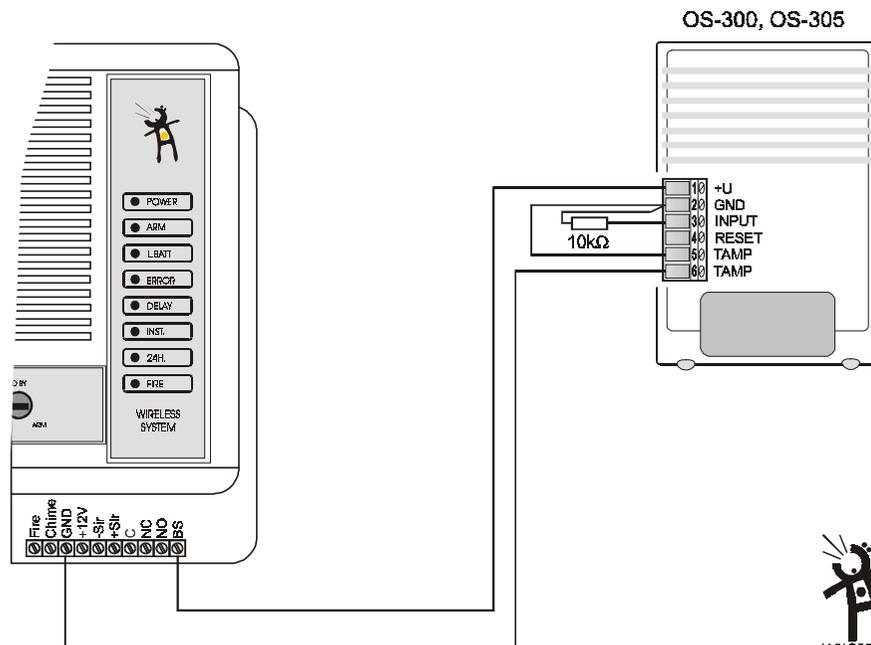
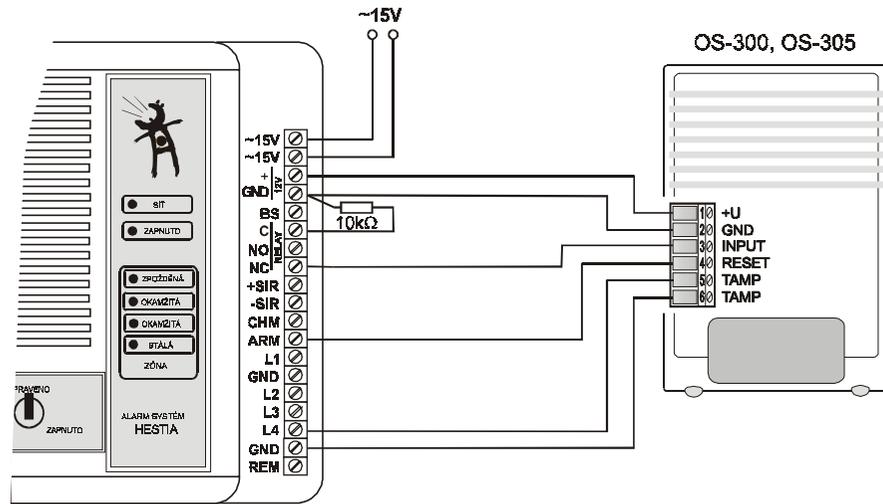


Example of use:



JABLOTRON
Pod Skalkou 33
466 01 Jablonec nad Nisou
<http://www.jablotron.cz>

Backup Outdoor Siren OS-300 & OS-305

Description

The OS-300 (305) is a high powered electronic siren and flashing light with a rechargeable battery back up. All functions of this siren are controlled by a built in microcontroller. It permanently performs self tests and it also checks connection with an alarm system. The siren has a digitally balanced loop (E.O.L. resistor) input as a trigger. This input is able to recognize any manipulation on siren's wiring. The siren is also triggered if power supply interrupted. An optional trigger delay timer includes a feature that makes the siren wait 15 seconds before sounding alarm. The microcontroller controls the back-up battery charging (built in DC/DC converter).

The siren is protected by double casing. Outside is UV and weather resistant plastic, inside there is a metal cover. This provides an excellent protection from the elements and physical tampering. Two tamper switches are built into the unit. They recognize removing the cover from the unit or the removing the siren from the wall.

Model: OS-300 is equipped with a magneto-dynamic horn siren

OS-305 is equipped with piezo-electronic siren

LED indicator confirms the siren's auto testing (=siren is ready).



Specifications

<i>charging voltage (BS terminal):</i>	10 to 15 V DC (built-in DC/DC converter)
<i>standby current consumption:</i>	15 mA - 100 mA (depends on the back-up battery conditions) typ. 40 mA
<i>siren loudness:</i>	120 dB
<i>back up battery:</i>	12 V, 1.3 Ah (not included)
<i>balanced loop trigger:</i>	End Of Line resistor 10kohm
<i>tamper switch output:</i>	0.5 A / 60 V max. (N.C. contact)
<i>cover</i>	IP44

Installation

Remove plastic cover by removing two screws (under plastic caps) with a screwdriver. Then remove inside cover (one screw).

Route all cabling into the siren through a hole in the rear part. Hang the siren housing on the top screw and fix it using two other screws.

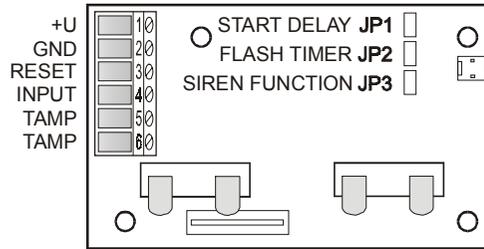
Terminals

TAMP - is the output from the tamper switches (Normally Closed). Connect these two terminals to the 24 hour zone input of the control panel.

INP - is the balanced loop trigger input. It checks if the End Of Line (E.O.L.) resistor 10 kOhm is connected between INP and GND terminal. Connect the E.O.L. resistor serial to N.C. contact (or parallel to N.O. contact) of alarm control panel output relay. The E.O.L. resistor should be located on the side of the control panel.

+U - is the input for charging voltage from the control panel. If this terminal has a positive potential (from +10 to 15VDC) against GND the siren backup battery is recharged. The dropping of this terminal's voltage causes the siren to activate.

RES - is the input to RESET flashing light timer. Flash light is reset when RES terminal is disconnected from GND (raising edge). Use ARM control panel output (connected to GND when armed) or an external NC push button switch.



Optional functions

There are three jumpers on the printed circuit board (Figure above shows their location) to select OS-300 (305) optional functions:

JP1 - trigger delay. Leaving JP1 installed allows the siren to start without the delay. Removing jumper JP1 invokes a trigger timer that waits 15 seconds to activate the siren when alarm condition.

JP2 - flash timer. Leaving JP2 installed resets the light flash automatically 1 minute after alarm condition finished. Removing jumper JP2 allows the light flash for more 60 minutes after alarm condition finished (can also be reset manually by RES input).

JP3 - siren function. Leaving JP3 installed means full function of the siren (if +U voltage dropped = siren works for 1 minute; if INP loop unbalanced = siren traces this condition duration (max. 1 minute); if both triggers triggered simultaneously = siren works 1 minute, 10 seconds pause and then it sounds for next 5 minutes). Removing jumper JP3 allows two wire simplified connection (only +U trigger). In this case the siren is triggered by a drop of voltage on BS input and traces duration of the alarm (max. 6 minutes).

Automatic testing

The OS-300 (305) performs an automatic testing of hardware, software and inputs. Positive results of the tests are confirmed by a LED which is installed in the flash light cover (a flash every 30 seconds). If the LED doesn't work, the siren should be checked. We _____ to check conditions of the back up battery over 4 years.

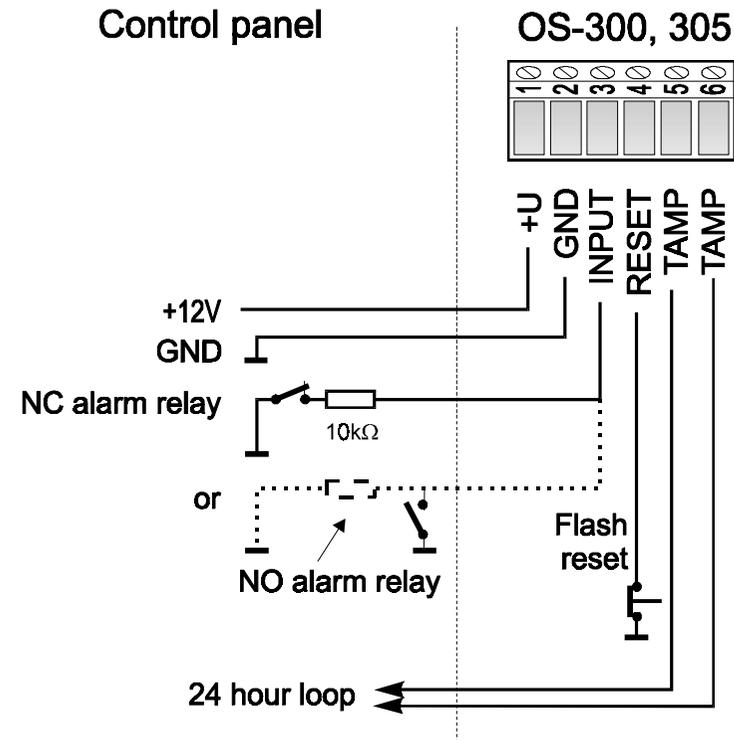
Finishing the installation

When wiring is complete, recheck the connections. Even if you do not use the balanced loop trigger, the INP terminal must be connected to GND via 10 kOhm resistor. Install the backup battery and internal cover and front cover.

The following conditions are necessary for the OS-300 (305) to be ready:

- connected backup battery (charged)
- power supply on +U input terminal (positive voltage from +10 to +15 V DC)
- balanced loop trigger input INP connected via 10 kOhm resistor to GND

After about 15 seconds from the moment when all the above three conditions are valid the OS-300 (305) will make 3 beeps and 3 flashes. From this moment the siren is ready to work.



Connection of outdoor siren to control panel