

ANTI-BARK DEVICE FOR DOGS

FERRANTI
animals cages and kennels

User manual and Installation instructions

Model TRS0440



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Type of Product: A/A001 with Full Optional Sensor

Contents: User manual and installation instructions

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Overview

The anti-bark device is an electronic appliance which, once installed, limits the disturbance that barking of one or more dogs can cause for you or your neighbours.

The device takes advantage of the principle that just a few drops of water dropping near the dog's kennel or basket (normally the dog should come into direct contact with the spray) is enough to silence the dog and make it go back to the shelter of its doghouse, entirely harmlessly and in the most natural way possible.

Symbols used in the Manual



Paragraphs or notes marked with this symbol indicate that non conformance with the indications may cause malfunctions, breakages or damage to persons or objects.



Paragraphs or notes marked with this symbol indicate that the operations indicated are strictly forbidden.



Paragraphs or notes marked with this symbol indicate that non compliance may represent an electrical shock risk.

Component description

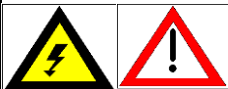
The device kit is made up of the following components:

POWER SUPPLY: This element supplies electrical power to the sensor and the solenoid valve. The **SOLENOID VALVE** is the device which must be connected to mains water supply, and is activated automatically by the sensor when the required conditions are met to trip the water spray.

- The SENSOR: this is the most important element of the whole device, and must be positioned directly on the doghouse, or near the point where the dog usually barks, and in a position out of the dog's reach.

Installation and Preparation for Operation

General

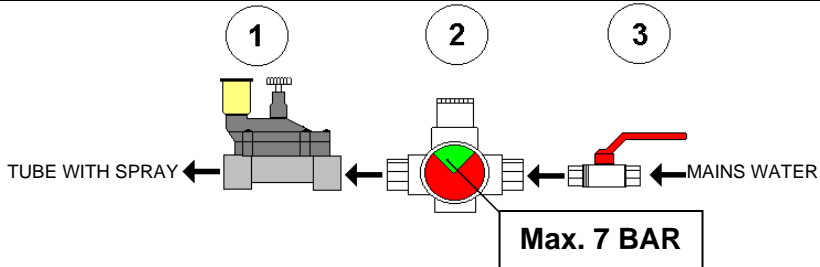


This document provides support for product installation and information regarding product characteristics. It is in addition to but **NOT A SUBSTITUTE** for relevant regulations regarding the operation of electrical appliances, which must be carried out **EXCLUSIVELY BY SPECIALISED PERSONNEL**

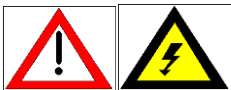
Connecting the Solenoid Valve to Mains Water.



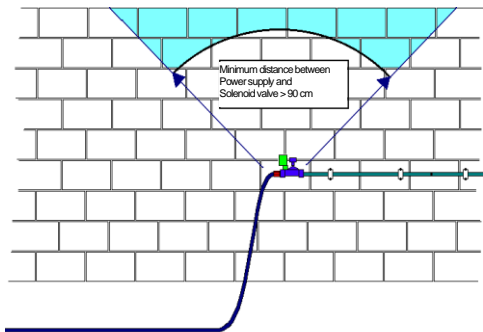
Warning: The solenoid valve (1) has a maximum operating pressure of 7 Bar, check the pressure of the mains water supply and ensure that it does not exceed this level. Should it do so, install a pressure reducer (2) to the solenoid valve (not supplied). In order to be able to act quickly in the event of device malfunction, a tap (3) **MUST** be installed prior to the solenoid valve (not supplied) to quickly shut off the water supply. **THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR OBJECTS AS A RESULT OF THE USE OF THIS APPLIANCE.**



Power Supply Positioning



Before beginning the installation, an 220V AC electrical supply socket should be made available in order to connect the power supply once the connections have been made. In order to reduce the risk of electrical shocks, the power supply should be positioned higher than the water supply connections, and at a distance of at least 90cm so that any leaks from the water supply do not affect the power supply unit. In the following diagram, the area above the semicircle is the recommended area for installing the power supply.





WARNING: The power supply container is NOT WATERTIGHT, and must only be positioned in areas which can ensure shelter from the elements.

Positioning the sensor



WARNING: If positioning of the sensor in a position different to the one indicated in this manual is required, ensure that there is a space of at least 1 cm between the fixing surface and the base of the container so that the microphone can detect sound pressure.

The sensor must be positioned near to the point where the dog usually barks, but out of its reach, at a height from the ground approximate to the height of the animal.

To ensure that the sensor is protected from the elements, it **MUST** be positioned as shown in Fig. 4 following the instructions below.

- 1) Attach the bracket (See Fig. 1)
- 2) Attach the container base to the bracket (See Fig. 2)
- 3) Pass the cables through the holes in the base (See Fig. 3) and connect them as indicated in the paragraph "CONNECTING THE SENSOR TO THE POWER SUPPLY AND SOLENOID VALVE"
- 4) Insert the electronics into the guide on the container base, ensuring that the microphone and the temperature sensor align with the appropriate holes.
- 5) Close the cover by pressing it until completely closed, held by the two protrusions on the container cover.
- 6) Connect the power supply to the socket and ensure that the green LED is illuminated.



Fig.1



Fig.2

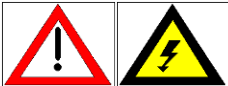


Fig.3

WARNING: The sensor has IP43 level protection, and is therefore resistant to **the weather. In any case, avoid water spray from below in relation to the position where the sensor is installed.**



Connecting the Sensor to the Power Supply and Solenoid Valve



The connection between the sensor and power supply must be made using a 2-pole cable 2x0.75mm (not supplied) with a maximum length of 80m. The connection of the sensor to the solenoid valve must be made using a 2-pole cable with a minimum thickness of 0.75mm.

It is easier to begin with the sensor connection, proceeding as follows:

- 1) Ensure that the power supply is disconnected.
- 2) Connect the two poles of the power supply cable to the terminals on the printed circuit board marked with ALIMENTAZIONE 24 VAC **(IT DOES NOT MATTER WHICH WAY ROUND)**. See Fig. 4



Connecting the power cables

Fig. 4

- 3) Connect the two poles of the solenoid valve cable to the terminals on the printed circuit board marked with ELETTRIVALVOLA. (IT DOES NOT MATTER WHICH WAY ROUND) See Fig. 5



Connecting the solenoid valve

Fig. 5

- 4) To connect the cable to the solenoid valve, two FASTON connectors should be crimped to the end of the cable and inserted into the relevant contacts on the solenoid valve. (IT DOES NOT MATTER WHICH WAY ROUND)
- 5) Start programming the sensor by adjusting the microswitch and dimmer inside the sensor, as described in the paragraph: "PROGRAMMING THE DEVICE"
- 6) Fix the position of the sensor as described in the paragraph "POSITIONING THE SENSOR"

Positioning the spray



Any garden watering accessory can be used as a sprayer, which should be connected to the tube connected to the solenoid valve, positioned in such a way as to ensure that the water jets **do not hit the sensor** but reach an area close to the dog (it isn't usually necessary to aim directly at the animal).

In any case, when regulating spray direction, be sure to prevent any direct or indirect damage that water may cause, noting that the water jet can start without warning. This may startle or frighten people or animals who are in the area at the time.

The spray duration can be changed by adjusting the potentiometer on the sensor. The length of spray should be the minimum required in order to silence the animal and make it return to the doghouse.

The Ferranti company cannot be held responsible for damage to persons, animals or objects as a result of the use of this device, even if installed following the instructions in this manual.

Programming the Device.

Programming of the device is made using the 8 switches positioned inside the sensor, numbered 1 to 8, which control the functions described here:



WARNING - THE FUNCTIONS ARE ACTIVATED BY MOVING THE RELEVANT SWITCHES TO THE "ON" POSITION

Switch 1 : For activating or deactivating the "shower" function, when this switch is in the **ON** position, the device sprays water for around 30 seconds plus the time set on the potentiometer (SPRAY DURATION); this happens every 60 minutes, but only if the ambient temperature is above approx. 20°C.

Switch 2 : The sensor trips the solenoid valve for the time set on the potentiometer (SPRAY DURATION) from the **first** bark of the dog at a certain volume; this function should be activated if the device is used to aid quiet at night or day in a neighbourhood, as the spray is activated almost immediately (a short delay from the bark to the opening of the solenoid valve is normal).



Warning - if this function is activated, switches 3 and 4 must be off.

Switch 3 : The sensor trips the solenoid valve for the time set on the potentiometer (SPRAY DURATION) after a series of 3-4 consecutive loud barks; this function should be activated if a minimum "guard" dog level is required before the dog is sprayed by the water.



Warning - if this function is activated, switches 2 and 4 must be off.

Switch 4 : The sensor trips the solenoid valve for the time set on the potentiometer (SPRAY DURATION) after a **long series of continuous barks by the dog**; this function is mainly used when the enclosure contains 3 or more dogs and it is not necessary to stop their barking immediately, indeed the sensor must detect 5 consecutive barks before it will activate.



Warning - if this function is activated, switches 2 and 3 must be off.

Switch 5 : If this switch is in the **ON** position, the outside temperature control system is **deactivated**, meaning the system does not take ambient temperature into account, and activates the water spray even when the ambient temperature is below 0°C.

By placing switch 5 in the **OFF** position, when the temperature nears 0°C, the system is automatically deactivated, reactivating when the temperature raises once again. In this way the well-being of the dog is maintained, as well as avoiding opening the solenoid valve with the risk of iced water in the tubes.

Switches 6-7: These switches are for activating the device based on the light of daytime or darkness of night as described below:

- 1) the device only works during the daytime: 7=ON and 6=OFF
- 2) the device only works during the night: 6=ON and 7=OFF
- 3) The device works both at night and during the daytime: 6=ON and 7=ON



Warning: for the device to work, at least one of the functions must be set to ON.

Switch 8: (reduce sensitivity) it can be useful to set this switch to ON if you wish to reduce the sensitivity of the device in order to prevent the solenoid activating in the event of false alarms due to other noises, especially when switch 2 is activated.

A further adjustment of the sensitivity can be made by rotating the dimmer, whether or not switch 8 is ON or not.

WARNING: the device is supplied with the following configuration:

- 1 = OFF ("shower" deactivated)
- 2 = ON , 3 and 4 = OFF (spray on first bark)
- 5 = OFF (device deactivated when ambient temperature reaches 0°C)
- 6 and 7 = ON (device active both in the daytime and at night)
- 8 = OFF (normal sensitivity)

Guarantee

The product is covered by a 24 month guarantee under the terms of Legislative Decree 24/02, so long as the device is installed and used according to the attached technical documentation. The product is also covered by a "satisfied or refunded" guarantee under the terms of Legislative Decree 22/05/99 No. 185: this is deemed void if the merchandise is returned without its original packaging, with integral parts missing and if returned damaged. Shipping costs are for the purchaser's account.

The guarantee does not cover damage caused by lightning, power surges or anything else not due to manufacturing or material faults. If necessary, protect the installation with suitable protection devices.

CE CONFORMITY DECLARATION

FERRANTI SRL UNIPERSONALE

Fraz. Fratta 43 – 06036 Montefalco (PG)

Perugia, Italy

Tel. +39 0742.399096

Fax +39 0742.399096

Web: www.ferrantinet.com

declares that the Anti-Barking device:

Type: A/A001 with Full Optional Sensor

Model: TRS0440

Serial number: 00X

is compliant with the following norms:

CEI EN 61010-1	Safety requirements for Electrical equipment for Measurement, Control and Laboratory Use
CEI EN 61000-6-1	Electromagnetic compatibility (EMC)
CEI EN 61000-6-3	Electromagnetic compatibility (EMC)
CEI EN 61000-3-2	Electromagnetic compatibility (EMC)
CEI EN 61000-4-15	Electromagnetic compatibility (EMC)

as prescribed by directives:

2004/108/CE

2006/95/CE




FERRANTI
SRL UNIPERSONALE
Via Vicinella, 43 - 06036 Fratta di Montefalco - PG
P.IVA n. F. 03/14890542 - N. Rea PG308879
Tel. e fax 0742.399096 - www.ferrantinet.com

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