



MINIATURE HF ARDF TRANSMITTER

MICROFOX HF

instruction manual

INTRODUCTION

This transmitter was especially designed for training purpose, foxoring competitions, promotion events and other special ARDF events. Frequency, transmitted code, keying speed and timing schedule are widely adjustable. Integrated antennas make the installation very easy - just hang it at a tree branch.

Small size and weight, low consumption and price, rugged house and easy operation - these features make this transmitter an ideal device for all competitors or trainers.

IMPORTANT!

Read carefully this manual before attempting to operate the transmitter.

Save this instruction manual. This instruction manual contains important safety and operating instructions for the MICROFOX HF.

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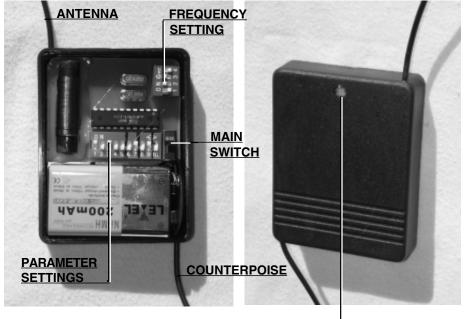
UNPACKING

Accessories included with the MICROFOX HF:

- this manual

- Clock start
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TRANSMITTER DESCRIPTION



INDICATORS . RED: ON AIR GREEN: LOGIC UNIT RUNNING

2 PRECAUTIONS

Do not let exhausted batteries in the transmitter! If you do not intend to use the transmitter for a longer period, remove the battery. If the battery leaked out already, remove it immediately, wash the transmitter with a lots of warm water, then dry it thoroughly.

Do not connect any voltage sources except for the assigned battery to the transmitter!!

3 INSTALLATION

Unpacking

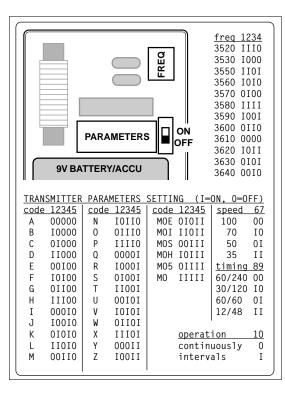
After unpacking, check carefully the transmitter. In the case of any damage do not use the transmitter and contact immediately the manufacturer.

Before operating

Connect 9V battery or accumulator.

Parameter settings

Open the transmitter house. Parameters (transmitted code, keying speed, timing schedule, operation mode and frequency) are set by DIP switch according to the following table:



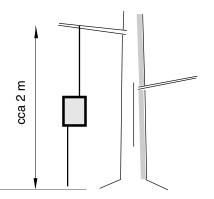
This table can be found also on the inner side of the transmitter cover.

Clock start

The transmitter is to be started at the beginning of its transmitting period by turning on (ON/OFF switch). Before this, you must set the timing (DIP switch 8-9) and select operation mode (DIP switch 10). Other parameters (frequency, code, keying speed) can be set any time, even while transmitting.

Transmitter installation

Unfold the antenna (both wires) and hang the transmitter so that the antenna (wire close to the indicators) is up and the end of lower wire is close to the ground. The whole radiator should be in free space (especially during the rain). With the antenna installed as this, the transmitter will be audible from the distance over 1 km.



Transmitter installation for foxoring

Unfold approx. 50 cm of antenna wire and wind the rest of both wires around the transmitter body. Install transmitter so that the transmitter body sits on the ground and the antenna stands up. The transmitter should be audible from 50-100m distance. Check the audibility with the receiver of average sensitivity. Be sure that the antenna is in the free air, otherwise the "final approach" of competitors could be very difficult!



4 MAINTENANCE

Keep the transmitter dry and clean. If the transmitter becomes wet, dry it by the clean cloth, open it and let it dry in a room temperature. **Never** use strong heaters!

If the transmitter becomes dusty or dirty, clean it with a brush or a dry, soft cloth. **Avoid** the use of strong chemical solvents such as benzine or alcohol to clean the transmitter.

The transmitter needs no maintenance above the mentioned procedures.

5 TROUBLESHOOTING

The following list is designed to help you correct problems which are not equipment malfunctions. If you are unable to locate the cause of a problem or solve it through the use of this list, contact the manufacturer.

■ The transmitter is not audible (green LED flashes)

Possible cause: the transmitter is out of the transmitting period or out of band. Note that only 12 combinations of FREQ DIP switches result in frequency within 3,5 MHz band.

Solution: check for the transmitter settings and start it again

The transmitter is not audible (green LED does not flash)

Possible cause: battery is exhausted or not properly connected **Solution:** check or replace the battery

7 SPECIFICATIONS

GENERAL:

Supply 9V battery or NiMH accumulator (6F22 size) Operating period (using battery or accumulator 200 mAh) continuously 6.5 hours

intervals

Operating temperature range Storage temperature range Covering Dimensions Weight -10...+ 60°C -20...+ 60°C IP53 57 (W) x 73(H) x 22 (D) mm 50 g (without battery)

TRANSMITTER:

Carrier frequency Modulation Output RF power Antenna PLL controlled (3,52 ... 3,64 MHz) CW 50 mW vertical wire 2 x 1,2 m (audible over 1 km)

17 hours

LOGIC UNIT:

Transmitted codes: Keying speed: Time schedules:

MOE, MOI, MOS, MOH, MO5, MO, A ... Z 35,50,70 or 100 PARIS 60 s transmitting/240 s space 30 s transmitting/120 s space 60 s transmitting/60 s space 12 s transmitting/48 s space continuous operation +-20 ppm (approx 2 s/day)

Time base stability:

6 WARRANTY, SERVICE

Should this equipment malfunction under normal use, it will be repaired without charge for a period of one year from the date of purchase.

The customer shall not have any claim under this warranty for repair or adjustment expenses if the trouble is caused by improper, rough or careless treatment or mechanical damage, by a fire or other natural calamity or by improper repair or adjustment made by anyone other than manufacturer.

Any information, service or modifications are provided by the manufacturer:

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