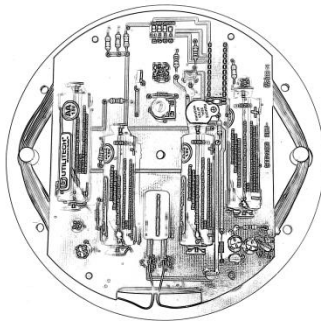




Indoor Battery Powered Transmitter

Operators Manual



Description / Specifications

The Pet Stop Battery Powered Transmitter operates from 4 standard AA alkaline batteries, and produces a signal range of up to 4'.

The transmitter incorporates an audible low battery warning which permits mounting the transmitter out of site, such as in a closet or beneath a couch or bed.

The transmitter is primarily intended for avoidance applications. To enhance battery life, the transmitter periodically produces a burst of signal. The rate of transmission is adjustable as follows: once every 4 seconds (maximum battery life), once every 2 seconds, once per second and twice per second (1/2 second interval - minimum battery life – intended for training only).

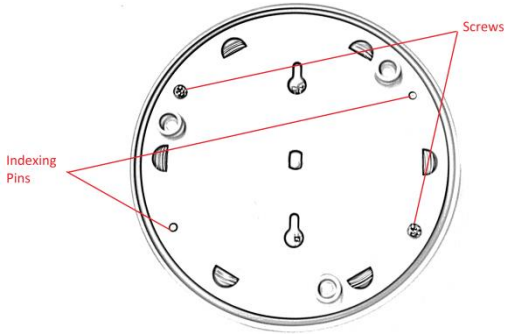
Battery life is greatly hinged on range – the greater the range, the shorter the battery life. Slight downward adjustment of the range control can greatly extend battery life (see battery life examples).

Specifications:

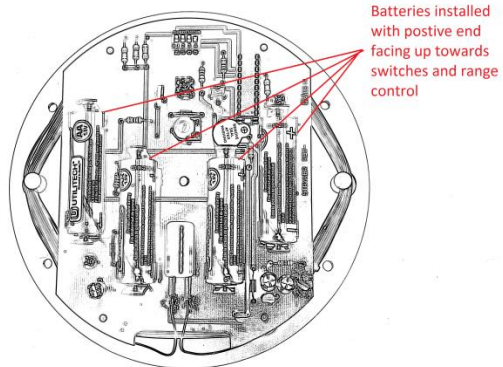
| | |
|---------------------|---|
| Maximum range: | 3 ¾' +/- ¼' Up to 5' of range can be obtained by increasing receiver sensitivity from its default setting. |
| Range degradation : | Range may degrade 6" over life of batteries |
| Frequency: | Fixed, 7KHZ |
| Modulation: | Fixed, PETSTOP |
| Battery Life: | Maximum of 6 months based upon a 3' field. Transmission duration ¼ second, repetition rate 4 seconds. AA Alkaline battery capacity assumed to be 3000mA-Hr |
| Batteries: | 4 AA Alkaline – rechargeable batteries not recommended |
| Battery Preference: | <i>In order based on actual use:</i> Duracell Ultra/Quantum, Kirkland (Costco), Rite Aid, E2 Energizer, RayOVac Max, Energizer Max, Duracell Copper Top, CVS and Kodak – <i>note that this is subject to change, valid at time of printing</i> Lithium AA batteries will not significantly increase battery life. |
| Low Battery : | ¼ second beep every 1 to 3 minutes |

Getting Started: Battery Insertion

Remove the 2 screws from the bottom of the case using a Phillips screwdriver.



Insert 4 AA batteries in orientation as shown. Batteries are all oriented in the same direction, the positive end of the battery faces upwards towards the switches.



Upon insertion of last battery, transmitter will power up. It will produce a 1 second beep while turning on the red transmission LED.

If the transmitter produces a series of rapid beeps for 10 seconds after power-up, this is an indication that the batteries are low and should be replaced.

(In normal operation the transmitter will not beep. When the batteries are low and need to be changed the Transmitter will produce a very short beep every few minutes.)

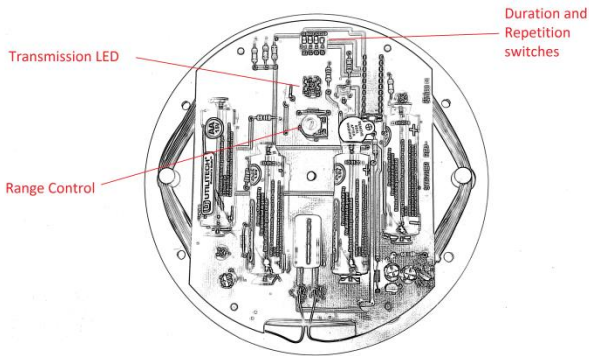
Replace the lid, being careful to align the indexing pins with the base. Re-install the 2 screws you removed earlier being careful not to over tighten them. They do not need to be tight.

The only visual indication of operation will be a momentary illumination of the Transmission LED each time the transmitter produces a burst of signal.

There is no ON/OFF switch. If you do not desire to have the unit transmitting, simply remove at least 1 battery.

It is recommended to remove all batteries if not being used and being stored for extended periods.

Transmitter Controls / Indicators



Transmission LED:

This LED will illuminate at the end of a transmission packet. This will let you know the transmitter is functional and assist in ascertaining range – receiver should activate when light illuminates.

Range Control:

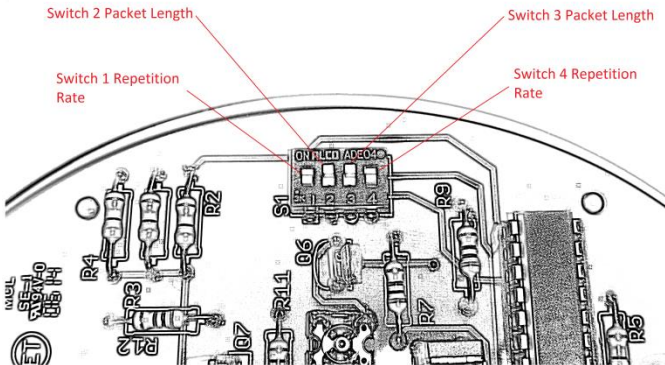
Sets range of transmission. Rotate Clockwise for maximum, Counter-Clockwise for minimum. Battery life will be maximized by setting the control to as short of range as practical for the application.

Duration and Repetition Switches:

These four switches set the transmission duration and the repetition rate.

Setting the Switches:

Switches are set by sliding them up or down. To turn a switch “ON” slide it to the up position. To turn a switch “OFF” slide it to the downward position.



Switches 1 and 4 control the repetition rate. This controls how often the transmitter bursts signal. Transmitter repetition rate can be set at ½, 1, 2 and 4 second intervals. The slower the repetition rate (i.e. 4 seconds) the greater the transmitter battery life.

Settings:

| | |
|--------------|-------------|
| 1 ON, 4 ON | ½ second ** |
| 1 OFF, 4 ON | 1 second |
| 1 ON, 4 OFF | 2 seconds |
| 1 OFF, 4 OFF | 4 seconds |

**** Will result in poor battery life. Only use for initial training. Transition to a slower repetition rate when proper behavior has been obtained.**

Switches 2 and 3 set the packet length. This controls the length of the transmitter signal burst. Burst lengths of $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ and 1 second can be selected. A shorter burst length (i.e. $\frac{1}{4}$ second) will yield a longer transmitter battery life.

Settings:

| | |
|--------------|--|
| 2 ON, 3 ON | $\frac{1}{4}$ second – use with Receiver set to “51”, “21” |
| 2 OFF, 3 ON | $\frac{1}{2}$ second – use with Receiver set to “52”, “21” |
| 2 ON, 3 OFF | $\frac{3}{4}$ second – use with “51” and “22” *** |
| 2 OFF, 3 OFF | 1 second – use with “52” and “22” *** |

*** Will result in very poor transmitter battery life! Only use if a correction is required AND a delay must be used between tone and correction. Otherwise a shorter duration setting can be used and only a tone will be emitted by receiver. If a correction is also required, it is highly recommended to disable the receiver’s delay (set receiver to “21”).

Battery Life:

To maximize transmitters battery life, program receiver for setting “51” to disable duty cycling, and place transmitter switches 2 and 3 in the on position and switches 1 and 4 in the off position. This will minimize the amount of time the transmitter needs to produce signal. Adjust range control for a minimally acceptable signal. If a physical correction is required set the receiver to no delay (“21”).

Battery Life Examples – *these are approximations of typical battery performance – your results may vary:*

Switches 2 and 3 set to “ON”, Switches 1 and 4 set to “OFF”

(1/4 second transmission every 4 seconds)

| <u>Range</u> | <u>Battery Life</u> |
|--------------|---------------------|
| Maximum | 4 months |
| 3' | 6 months |
| 2' | 12 months |
| Minimum | 38 months |

Switch 2 set to “OFF”, Switch 3 set to “ON”, Switches 1 and 4 set to “OFF”

(1/2 second transmission every 4 seconds)

| <u>Range</u> | <u>Battery Life</u> |
|--------------|---------------------|
| Maximum | 2 months |
| 3' | 3 months |
| 2' | 6 months |
| Minimum | 18 months |

Switches 2, 3 set to “ON”, Switch 1 “OFF”, Switch 4 “ON”

(1/4 second transmission every 1 second)

| <u>Range</u> | <u>Battery Life</u> |
|--------------|---------------------|
| Maximum | 1 month |
| 3' | 2 months |
| 2' | 5 months |
| Minimum | 13 months |

Switch 2 set to “OFF”, Switch 3 set to “ON”, Switch 1 “OFF”, Switch 4 “ON”

(1/2 second transmission every 1 second)

| <u>Range</u> | <u>Battery Life</u> |
|--------------|---------------------|
| Maximum | 2 weeks |
| 3' | 1 month |
| 2' | 3 months |
| Minimum | 6 months |

Switch 2 set to “ON”, Switch 3 set to “OFF”, Switches 1 and 4 set to “OFF”

(3/4 second transmission every 4 seconds)

| <u>Range</u> | <u>Battery Life</u> |
|--------------|---------------------|
| Maximum | 1 month |
| 3' | 2 months |
| 2' | 4 months |
| Minimum | 9 months |

Switch 2 set to “ON”, Switch 3 set to “OFF”, Switch 1 “OFF”, Switch 4 “ON”

(3/4 second transmission every 1 second)

| <u>Range</u> | <u>Battery Life</u> |
|--------------|---------------------|
| Maximum | 1 week |
| 3' | 3 weeks |
| 2' | 7 weeks |
| Minimum | 4 months |

Notes:

Addendum: Version B

Additional Features:

- ON/OFF Switch (DIP Switch position 6)
- Buzzer silence switch (DIP Switch position 5)
- Ability to drive an external loop

Dip Position 5:

Place switch in the “ON” position (up) to enable low battery alert.

Place switch in the “OFF” position (down) to disable the low battery alert – PLEASE NOTE: in this position transmitter will NOT alert you to the internal batteries being weak and needing replaced.

Dip Position 6:

Place switch in “ON” position to turn the transmitter on. This switch may be moved to the “OFF” position (down) to disable the transmitter.

External Loop:

Use part # 10210004 (cord set) to make connection to the transmitter.

Maximum loop length is 100'

Wire Gauge requirements:

75' to 100': 10 Gauge insulated wire

25' to 74': 12 Gauge insulated wire

5' to 24': 14 Gauge insulated wire

Hints:

Turn range control as low as possible to maximize battery life while testing to make sure animal cannot enter area. As an example, a 5' x 40' flower bed can have the range control lowered far enough to allow operation from batteries for 1 year (1/4 second duration every 4 seconds).

Unit can be buried underground utilizing a waterproof box. NEMA rain-tight enclosures are an excellent choice but expensive. Round "Tupperware" container can also be used - simply cut small hole for external loop wires to exit and seal with a silicone sealant.