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Technical Operation of Transmitter/Receiver

The main function of this device is a message sender/receiver. The target communication distance would be within 20 feet.

To send out a message, a user must input a message in the device first. Once a message is ready to send out, the device will wait for a request signal from another device, then the message will be sent.

No matter a message is ready or not, at the same time this device will output request signal itself to look for whether there is another device within the range. If another device receives the request signal, it will send out a message if there is message ready or just disregard the request signal.

As a message is sent, all devices within range will receive the message. Once a message is received, the device will analyze it for storing or disregarding. An alert tone will be outputted if a new message is received and stored.

According to the feature of this device, two kinds of Data Packet will be transmitted.

- (1) Request signal - This is a one-byte data of hex number B0h. The device will transmit this signal periodically at a cycle time of 10.5 to 12.5 seconds.
- (2) Message – Inputted by user, to be sent out upon receiving of request signal.

Receiving of request signal or message is ready anytime except the device is in transmitting state.

When a request signal is received, if a message is ready in the device, the message will be sent during next sending cycle. Delay time of next transmission depends on no. of bytes transmitted in the message. Please see Time Between Data Packets in the Description of Transmission Signal for details. During the delay time, if request signal is received again, the message will be sent again upon end of delay time, otherwise request signal is transmitted.