Theory of Operation

Circuit Description

1. *<u>Functional Description</u>*

   The Programming unit uses its simple 125kHz LF transceiver (at any time when it commanded to do so) to communicate by short range link with the end devices (active RFID electronic sensors) The data is transferred to the user through a serial RS-232 PC port.

2. *<u>Hardware Description</u>*

   2.1. The PCB includes digital parts (µP, memory, RS232 driver etc.) and LF transceiver which utilizes on-off keying (OOK) modulation over a 125KHz carrier (4Kbit data rate) at short range (up to 20cm)