IP9TX500

TX-500 CIRCUIT DESCRIPTION

This intelligent key-fob transmitter is compirsed of a small PCB on which there is a Radiometrix TX2 418 MHz saw oscilated transmitter module, a PIC 16C84-04P micro-processor with its assoicated components, a 2-way DIL switch, a 5 volt regulator, two push-buttons, red and yellow LEDs and various other discrete components. A 12 volt 33mA battery fitted into clips attached to the PCB provides power.

A MINDA 'family code' is pre-programmed into the eeprom of the PIC micro-processor along with other user-selectable operating parameters by connecting a lead from an IBM compatible Personal Computer to the 8-way socket on the PCB. The unit's ID (1,2,3,or 4) is set up on the DIL switches and can be easily changed by the user.

Pressing one of the two buttons on the top of the key-fob activates the transmitter. The PIC microprocessor causes battery power to be applied to the Radiometrix TX2 module. At this time, serially encoded data (including the status of the battery, and which button was pressed) to the modulation-input line of the TX module.

There are numerous programmable options available to the end user. These are fully described in the operator's manual.