

IP9TX600

TX-600 CIRCUIT DESCRIPTION

This intelligent belt transmitter is comprised of a small PCB with a PIC 16C84-04P micro-processor with its associated components, a 5 volt regulator, and various other discrete components. A Radiometrix TX2 418 MHz saw oscillated transmitter module and two activation switches are connected to the PCB. A 9-volt flat battery system is fitted into clips attached to the PCB to provide 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 PC Board via solder pads.

Pressing one of the two buttons on the belt 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.