FUNCTIONAL DESCRIPTION OF THE SILENT CALL ALERT TRANSMITTER FA1004

* The FA1004 generates a coded RF transmission when the unit is activated. The data is received and decoded by a Silent Call receiver.

* A closure across the input wires (dry contact) or application of 12 0r 24 volts to the input wires (voltage input) activates the microprocessor which reads the address and alert type settings from a user programmable DIP switch.

* The microprocessor generates a data stream that contains information from the DIP switch. This is used to modulate the RF output. Data is encoded in similar style to Manchester Coding with an effective rate of 75mS for each 9 bits of data with a 20mS delay between packets of data. Each transmission consists of 4 groups of 9 bits and takes a total of 360mS.

* The RF section is SAW based, with a carrier frequency of 318MHz.

* Silent Call transmitters include an LED which illuminates when the unit is transmitting.

* The dry contact input unit is powered by 2AA batteries.

* The voltage input unit is powered by 12 or 24volts (provided by the fire panel).