Technical Description

The WECA is a 312 MHz OOK transmitter. Normal transmission is started by manual activation of a “pull cord”. Supervision transmissions occur once per hour.

Normal transmissions consist of a code sequence including the device id, alarm flag, and battery condition flag, which repeat for five seconds. Supervision transmissions consist of a code sequence including the device id, supervision flag, and battery condition flag, which repeat for one second.

Power is supplied by a 3.0 V Lithium coin cell.

Logic operations and the transmitter is contained in an Atmel AT86RF401 Timing is provided by an RC oscillator which interrupts the Atmel chip approximately once per minute.

Transmitter frequency is derived from 13 MHz crystal which works with a local oscillator and 24:1 phase-lock loop within the Atmel part.

Device id is programmable and is stored in an EEPROM also within the Atmel part.

Exhibit H – Product Specification
Tel-Tron Technologies Corporation
Transmitter

Specifications

Compatibility	Lifeline 6000 series Communicator
	Lifeline 9000 series Telephones
	Tel-Tron WRMA Receiver
	Tel-Tron WARB Receiver
Battery	Energizer CR2032 Lithium
	Panasonic CR2032 Lithium
Voltage	3 VDC
Current	0.75 uA when idle
	10 mA when operating
Frequency	312 MHz
Field Strength	Within FCC Part 15 limits
Modulation	OOK