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Operational description of the 418 MHz. battery operated temperature/humidity sensor.

Description of the circuit functions, ground system and antenna of the BAPI, BA/BS2-WTHT Wireless transmitter

The BAPI, BA/BS2-WTHT Wireless transmitter is a lithium battery operated, microprocessor based, 418 MHz. transmitter that transmits temperature and relative humidity and a unique 30-bit serial number. The microprocessor is brought up from a power down state every 1/60 second by an internal timer in the microprocessor. The microprocessor gathers data from either a digital sensor or the on board thermistor temperature sensor. The microprocessor converts this information to digital data and then combines the counts and with the serial number data from an onboard stored unique serial number and then transmits the entire data packet serially with a Linx Technologies TXM-418-LC-R 418 MHz. Transmitter module. The microprocessor then powers down into a quiescent state to wait for the next interrupt from the on board timer.

The PC board bottom layer is a ground plane and the antenna is a 1/4-wave loop that has been etched in PC board material and placed into the ABS enclosures cover.