

FCC ID: M5ZPRO1

Operational description of the Wireless Temperature Probe Transmitter,
Model WOW-PRO

**Description of the circuit functions ground system and antenna
of the Point Six, WOW-PRO1 Wireless temperature
transmitter:**

The WOW-PRO1 wireless temperature sensor is a lithium battery operated microprocessor based 418 MHz. transmitters that transmit both digital temperature data and a unique 64-bit serial number. The microprocessor is brought up from a power down state every 4 seconds by a DS2417 time of day clock interrupt output. The temperature is measured with a DS18B20 digital temperature sensor, which has a unique 64-bit serial number that can be read by the microprocessor. The microprocessor counts the 4-second interrupt cycles from the DS2417 clock until the transmit period has expired. The microprocessor then reads the temperature from the previous temperature conversion, combines it with the serial number data and transmits the entire data packet serially with a Linx Technologies TXM-418-LC-R 418 MHz. Transmitter module. The microprocessor then starts another temperature conversion cycle and powers down into a quiescent state to wait for the next interrupt from the DS2417 clock.

The PC board bottom layer is a ground plane and the antenna is a Linx Technologies model ANT-418-CW-RH. The entire electronics is sealed in 304 stainless steel tube.