

This device consist of wireless transmitter,receiver and current sensors,current sensors detect the current which flow through it,via A/D ports input the data to MCU(HT46RU232),and the MCU(HT46RU232) ,which the working oscillator is 4MHz,will transmit the signal to the TX IC (A7103), and the TX IC's oscillator is 13.56MHz, deal with the data which from the MCU(HT46RU232), and the TX IC will feedback the final result to the RTC(PCF8563),the oscillator 32.768MHz, and the RTC(PCF8563) will translate the feedback signal to the MCU. The basic principles of the sensor are Electromagnetic conversion, resulting in a fixed voltage on the load, and then A / D conversion to obtain the current through the wire measured values, and then Numerical 433MHz/FSK will be sent from the final antenna.