

Applicant: FOB Instruments Ltd.

FCC ID: RYI901

The 90.1 is a set of transmitter unit and a receiver unit ,the transmitter has a temperature and humidity sensor and is put to measure the outdoor thermo-hygro

The actual thermo-hygro data is then send to the receiver through 433.925mhz carrier frequency. the receiver then pick up and display the data

The transmitter is made of Colpitts oscillator, where 433.92mhz SAW resonator provides the center frequency .L2 to R6 are the matching network

The 433.925mhz receiver is an enhanced super-regenerative type by adding a front-end amplifier, It is made of selective frequency network, front end amplifier, mixer, envelop detector and a comparator. the circuit of C22 ,L1 to C24 are selective frequency network, Components around the Q1 are the bias network Q1 and compoents around it are front end amplifer of super-regenerative. The signal is extracted through the mixer and envelop detector which are made of Q2 and component around it, then is amplified and output in digital form through the final stage of the comparator.