

Technical Description:

TRMS-RFS-006

MCU section:

The unit contains a powerful MCU (micro-controller) U2, Which controls all the functions of the whole unit, a TX section send data signals to receiver..

Sampling section:

Sampling circuit is consist of Q1,Q2 R1~R5 and CW1, Rheostat of CW1 locating on the head of the fuel meter, It's resistance would changed if the fuel volume varies. The MCU outputs a pulse every second to turns Q2 on, width of the pulse is 250us; Then , the MCU samples A,B respectively and figure out resistance according the sampled voltage, by using value of resistance, The MCU will soon look up the fuel volume which contains in it's memory, fuel volume was divided into 20 degrees, if there more than one degree variety was detected in one minute, A data pulse will be outpitted on 6th pin of the MCU in order to power the RF module, so that the information of fuel volume can be transmitted , emitting duration will come up to 200ms.

Power control section:

The RF power control module including Q3,Q4,R9,and R11, Power supply will be turned off to reduce power consumption while there is no emitting occurs, so cell battery can serve much more days.

RF section:

U1 and it's relevant components forming the transmission circuit, during it's power on, the transmission circuit emitting signals from MCU at 315MHz, and this 315MHz carrier wave is generated by quartz and U1's inner circuit, C4, L3, C7 forming the antenna network. amplitude modulation