Ultrasonic Tank Level Detector

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Abstract

The purpose of this paper is to describe a practical implementation of a level detector using ultrasound sensors. The low price of the final design is the main constraint of this project. The detector is comprised of two parts: an emitter, which is located in the diesel tank and contains two ultrasound sensors, an 80C51 microcontroller, a RTC and a wireless transmitter, and, at the other end, a receiver which is connected to a PC through the serial interface. The transmitter reads the level of the liquid in the tank once an hour and sends it to the receiver.