

GEL575 - Project

Digital Fuel Gauge

Using the PIC24FJ256DA210 microcontroller, we would like to display the percentage of fuel left in a car reservoir. For security reasons we will use water reservoirs already developed in the lab.

- The display will be made on two seven segment displays (max 99%).
- Use the available pins on the PICtail plus of PORTB to measure the level.
- The microcontroller must generate an alarm (Lighting a LED) if the fuel level is less than a certain threshold.
- The fuel level must be updated each 2.5 seconds.
- Make sure that the fuel fluctuations in the reservoir does not affect your readings.

PS: You are not allowed to use the Delay function

Submit your program as a PDF file. The hardware implementation will be presented in the class.