UNMANNED PETROL BUNK SYSTEM

ABSTRACT

In general, a smart card is an integrated circuit card with memory capable of

making decisions. A smart card, chip card or integrated circuit card (ICC), is defined as

any pocket-sized card with embedded integrated circuits which can process information.

In this project, we are using a contact smart card where the information inside the card is

communicated with the card reader by inserting card into the card reader. The card reader

in this project used is an SR-90 SDK of 1KB memory size.

In this system, all drivers have a smart card called just like a petro card. This card

can be recharged by some recharge points. The petrol pump is equipped with a smart card

reader/write. At the Petrol Pump, the driver swipes the card and the smart card reader

reads the amount in the card and will display it on the LCD. The driver then enters the

quantity of petrol that has to be filled using a keypad. The corresponding amount is

calculated & deducted from his petro card. The electric pump is then turned ON throught

he motor according to the entered amount, fills the tank and automatically turns OFF.

This motor will operated through relay. Here manual process is avoided by these smart

cards.

In this project 7805 is a regulator and it avoids noise spikes in power supply.

Smart card reader is connected microcontroller through serial port. These smart card

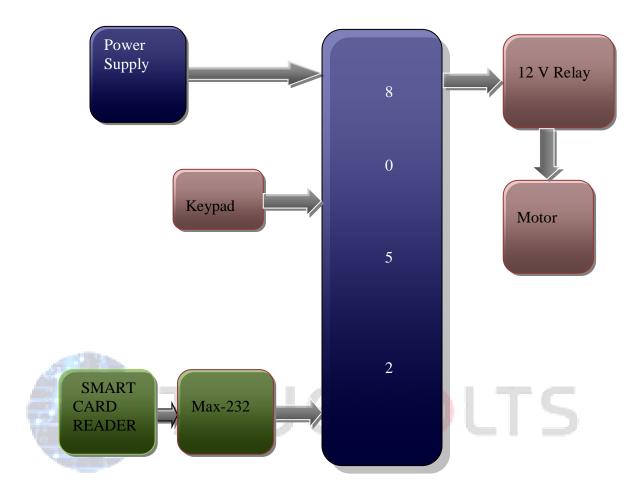
readers works under 9600 or 4800 baud rates. 16X2 LCD connected to microcontroller

through digital I/O lines.

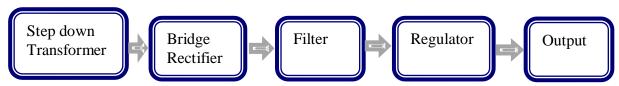
APPLICATIONS:

> Petrol bunks

BLOCK DIAGRAM:



POWER SUPPLY BLOCK DIAGRAM:



Call: +91 9908665239 email: info@truevolts.com

Website: www.truevolts.com