

Online monitoring of LPG distribution station

Challenge of Monitoring LPG Gas station: There was no simple method in which the gas level, pressure, temperature and density monitoring of LPG gas could be done easily. Also pumps, which are used for pumping gas in to tanker are ON or OFF is not known. Further various parameters of gas in tanker are unknown. A single console bringing all this information collectively in real time on a single page was the primary challenge.

Solution by Arun InfoTech: Arun Info Tech has solved the problem in an innovative fashion. There is a sensor network connected to an embedded device, which senses the parameters values. These values are then transferred via GPRS to a predefined port on an IP address or a domain name. From this IP address the readings are further taken and then displayed in the correct format on screen.

Description in detail: Kindly refer the below screen shot.



On left hand vertical block there are several LPG tanks shown, different gas parameters are shown like level, temperature, pressure and density each tank has inlet and outlet valve. If the valve is green then it is ON or if it is red then that valve is OFF. At the top are pumps similar to valves if the pumps are green then they are ON or if red then they are OFF. The pumps deliver the gas into tankers kept on

trucks. At the bottom the table shows different parameters of gas in trucks like level, temperature, pressure, start & end time, volume & weight delivered, density and flow.