

ABSTRAK

RANCANG BANGUN MODEL *MONITORING UNDERGROUND* *TANK SPBU* DENGAN MENGGUNAKAN GELOMBANG ULTRASONIK BERBASIS MIKROKONTROLER

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Underground tank monitoring system supplying fuel at the pump is currently widely used. In this case can the obstacles often faced due to not using the automated system. Monitoring fuel level measurement in tanks buried height using a measuring line.

In this final project has been designed model of monitoring a buried tank filling station using ultrasonic waves by means of the application time of light. This monitoring model to create an early warning system when the fuel in the tank buried already running out. The system consists of a transmitter apparatus, ultrasonic receiver microcontroller based ATmega8535. The transmitter and receiver are directed to a buried tank. Where the distance is proportional to time broadcasting transmitter until it is received back by the receiver, and then processed using a microcontroller ATmega8535 as the main controller, and LCD as the state of the viewer is inside the fuel underground tank.

Keyword : Ultrasonic, Microcontroler ATmega8535, Underground Tank dan LCD