



Transforming Fuel Dispensing into an Automatic, Secure, and Transparent Process with IoT Technology.



FUEL DISPENSER SYSTEM

**TRANSFORMING
FUEL DISPENSING
INTO AN AUTOMATIC,
SECURE, AND
TRANSPARENT
PROCESS WITH IOT
TECHNOLOGY**



**A MODERN SOLUTION FOR THE
TRANSPORTATION AND LOGISTICS
INDUSTRIES**



Vision

To create **a smart, efficient, and integrated** automated fuel dispensing system that enhances energy management with greater accuracy, efficiency, and safety.



Mission

- Simplify fuel dispensing with unique codes.
- Ensure a user-friendly, automated interface.
- Enable access from any internet-connected device.

CREAD CODE

The code is created by the central admin anywhere and anytime via any device as long as it is connected to the internet. Then the code is sent to the driver


SCAN THE CODE

The driver simply scans the barcode into a scanner connected to the computer

PLANT MERUYA POOL 5

12:58:34 PM-30/11/2024

No Tiket	: 1004	No Kendaraan	: -
Code	:	Jarak	: 5.8 KM
		Target Solar	: 46.13 LITER


FP0224110401

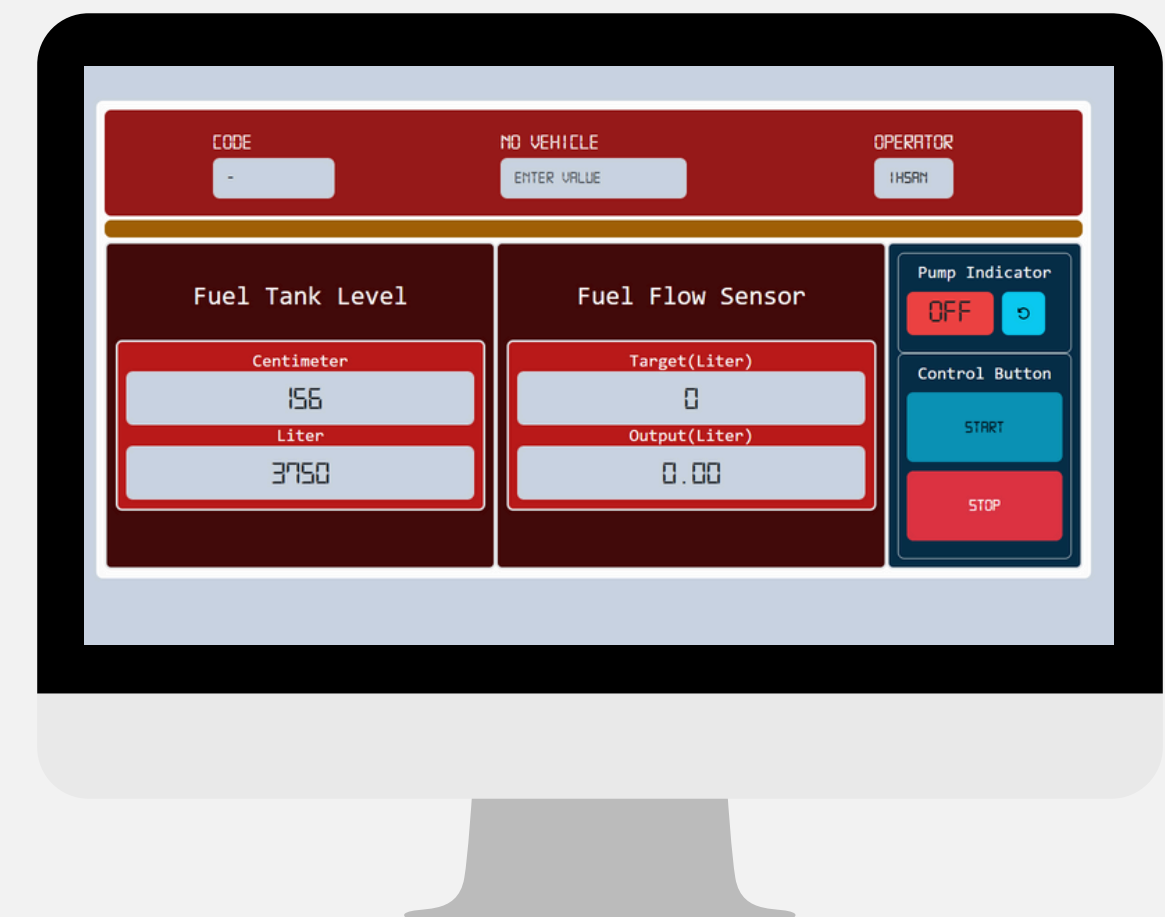
KETERANGAN : PT. KHARISMA MULIA MANDIRI - TAMAN VILLA MERUYA, ANWA RESIDENCE CLUSTER YARA

Pembuat : Operator Solar : Menerima :

(YANTI-OPS) { } (Driver / Operator Alat)

START THE MACHINE

Insert the dozzel into the tank and just press one click on the "start" button from the interface



KALIBRATION SENSORS

TO CALIBRATE THE SENSOR USING A MEASURING EQUIPMENT AND SENSOR READINGS, THEN THE TWO DATA ARE ENTERED INTO A LINEAR REGRESSION FORMULA.

$$Y = A X + B$$

(MEASURING INSTRUMENT) = A * (SENSOR READINGS) + B



REPORTING

Allows access to reports anytime and anywhere as long as connected to the internet. This system supports transparency and efficiency by recording transaction data in real-time.

The report includes the unique code, the admin's name who created the code, the fuel operator's name, the target fuel, the actual fuel dispensed, and details about the purpose of the refueling. All data is stored automatically, making monitoring and analysis easier for more accurate fuel management.

REPORT SOLAR				
an	Operator	Target Solar (L)	Output Solar (L)	
7	RANDI	77.06	76.96	BP. OKTAVIANDI - RUKO 09 BANGKA
76	RANDI	123.09	122.86	BP. SIRIN - JL. PERD
94	DOMULI	85.58	85.34	PT. ADHI PERSADA GEDU
29	DOMULI	84.32	84.44	MR ZHA
29	DOMULI	76.07	75.96	BP. MUARZ

Conclusion

The Automation Fuel Dispenser System is an innovative solution for fuel dispensing automation, designed to simplify operational processes and improve fuel management accuracy. The system enables admins to create unique codes remotely, which drivers can then use to activate the machine by simply scanning the code. This ensures a seamless and efficient fuel dispensing process with just a single step.

Sensor calibration, achieved through a linear regression method, enhances the precision of fuel measurement, ensuring accurate data for operational needs. Focused on efficiency, safety, and advanced technology, this system offers a modern solution for smarter and more time-saving fuel dispensing operations.

For more information
mihsanr.work@gmail.com