

ABSTRACT

The refueling process on a helicopter requires an accurate pressure monitoring system to ensure safety and prevent damage to the fuel system. This study aims to design a pressure monitoring system based on a pressure sensor integrated with a cloud platform. The sensor is used to measure the fuel flow pressure in real-time, then the data is sent via a wireless connection to a cloud service to be stored and visualized. The system is designed using an IoT-based microcontroller and the Firebase cloud platform as data storage. The test results show that the system is able to read and send pressure data stably and display information in real-time via a dashboard that can be accessed from a remote device. In conclusion, the integration of this system can improve the efficiency and reliability of pressure monitoring in the helicopter refueling process

Keywords: (Firebase Cloud)