ABSTRACT

"Raskin" is a food subsidy in the form of rice intended for low-income households as an effort from the government to improve food security and provide social protection in Target Households (RTS). So far, the mechanism for distributing Raskin rice is still not optimal, this is because the recipients of the Raskin rice aid have not yet reached the target, namely for poor households. The solution to overcome this problem is to make a tool that can help in distributing rice effectively and efficiently. Through a Ty-Box system based on a microcontroller designed to divide rice practically and according to the amount. This system is built using an RFID module and a load cell that is placed at the end before the rice is taken by the user. As well as a servo motor that is installed to open and close the door which insulates the main reservoir of rice with a cup, if the user is taping and the data that is read is valid, the servo will open and the rice falls into the cup. Then the rice is weighed by a heavy sensor (load cell), if the user has not registered, the LCD will display information "Data Not Registered".

Keywords: validation, load cell, identification, rice, Arduino Uno.