

## ***ABSTRACT***

Title : Design of Data Transmission Systems in the Arduino Uno R3 and Esp8266 Banbury Weighing Devices at PT. Bando Indonesian

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Weighing Tool Is a tool that functions as a measure of the mass of an object, currently the weighing tool has been modernized with the addition of PLC as a controller and data storage scales. This research is trying to build a new system, namely the Data Transmission Tool System in the Arduino Uno R3 & Esp8266 based Banbury Weighing Tool that can overcome the unreality of the timetable report data of the scales distributed to the SAP database so that it becomes inefficient. This system uses Arduino Uno R3 & Esp8266 as a gateway to connect with PLC and to the database. If the weighing data is directly distributed directly to the SAP database, it is able to monitor the SAP database. The method applied in this research is the PIECES analysis method and the development of the prototype method. This system is expected to increase efficiency in the report data distribution process.

**Keywords** : *data transmission tools, banbury weighing devices, Arduino Uno R3, Esp8266, methods fishbone, prototype methods*