William Pring

6919764

Description Of Process

In this project I will be using a cookie machine to representing my hypothetical industrial environment. It going to have a dough machine, baking machine, packaging machine and a sealing machine for the shop floor. It will also have a central computer that will log the data that is being transmission. Lastly the central computer will also have the ability to communicate to any device and ask them for their status and be able to receive a respond.

System Block Diagram

Description of RS485

RS485 are a serial communication that is widely use in devices, automation systems and computers. It is a balanced line, half-duplex transmission system allowing transmission distance of up to 1.2 km. (Limited) RS485 is one of the most widely used communication interfaces in data acquisition and control application because it is the most versatile communication and performs well on all four points. (Bies, 2015) RS485 offer data transmission speeds of 35 Mbit/s to 10 m and 100 kbit/s at 12000m. (RS-485, 2015)