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| --- | --- | --- | --- |
| **Parameters** | **Type** | **Description** | **Operational contraints** |
| Real time clock | Input | Tracks current time | Format HH:MM (24hrs) |
| Food Level Sensor | Input | Measures amount of food left in the container | Low,medium,full |
| Bowl weight Sensor | Input | Measures the weight of food in the bowl | 0-100gm |
| Scheduling time | Variable | Feeding time | Examples:13:00 |
| Dispenser status | Boolean | Indicates dispenser working status | Yes, no |
| Food consumption timer | Variable | Tracks the elapsed time after the food has been dispersed | 20 minutes |
| Rotate motor | Output | Activates motor to dispense food | Yes,no |
| Send alert | Output | Send different alerts | Low food,dispenser fault , food not eaten |
| Display scheduling time | Output | Display upcoming scheduled feeding time | Example: next feed at 16:00 |
| Logs of feeding event | Output | Logs the feeding time, amount of food dispensed, consumption status | Example:14:00-50 gm dispensed, consumed |
| Max weight in bowl | constant | Maximum allowed food | 100 gm |

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