Readme

PLC - GumiGam Production System

Description

The factory produces two types of gumi: Regular and Super. The gumi type is determined by the Analog Input1 value. If $0 \le \text{input} \le 5$, a regular gumi is produced; if $6 \le \text{input} \le 10$, a super gumi is produced. The production process comprises four main stages: Preparation of ice cream flavors, refrigeration of ice cream, mixing all ingredients and packaging.

Dependencies

- Gx Works2

Program Interaction

- 1. Open the attached file.
- 2. Navigate to the online tab and select 'PLC memory operation.'
- 3. Click 'clear PLC memory.'
- 4. Access the Compile tab and choose 'Rebuild All.'
- 5. Go to the Online tab and select 'Write to PLC.'
- 6. Press 'Start Monitoring.'
- 7. Access the Online tab and choose 'Remote Operation(s).'
- 8. Click 'RUN.'
- 9. Fill the desired inventory in the 'Watch 1' window (located in the bottom-right corner).
- 10. To initiate the plan, press the button X7.

Seven packs Production Instructions

- 1. Choose the gumi type by entering the correct value into Analog Input1.
- 2. Pull switch X1 to transfer the gumi type and initiate the preparation of ice cream.
- 3. Wait until the Yo light ball turns off.
- 4. Pull switch X2 to start the fermentation stage.
- 5. Wait until light balls Y2 turn off or X3 up and then wait until light balls Y5 and Y6 turn off during the mixing stage.
- 6. Pull switch X4 to begin the packing stage.
- 7. Toggle switch X0 up and down seven times to pack seven cups, Y4 light ball turns off.
- The light ball Y7 will remain on throughout the workday.
- The day will end if the inventory levels fall below the required amount for the chosen gumi type.
- In case of an emergency, press button X5 to immediately terminate the workday.
- Remember to pull all switches down at the beginning of a new seven-packs production.
- At the end of each workday, the total number of seven-packs produced will be displayed on the screen.

Contributors

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