## **Candy Batch Control System**

### Case History

#### **Opportunity**

A manufacturer requires a heating control for batch processing of candy. They want one control that will do several functions. The control needs to be easy to setup and use.

#### **Problem**

The manufacturer needs to heat up their candy to a temperature of 200°F using the "ramp to set point at start" to prevent damage to the candy at start up. Once it reaches 200°F, two things need to happen: 1) Inform the operator "batch finished" via a pilot light and remain "on" until this batch is removed. 2) Automatically change the set point from 200°F to a cooler 170°F until this batch is drained, which could be hours later. This prevents the candy from being over cooked.

# Watlow Products Utilized

- ➤ Series 988
- ➤ DIN-a-mite "B"
- >RTD Probe

#### **Solution**

The 988B-25BD-JARG, DB1C-3027-K200 DIN-a-mite(s), along with a Gordon sanitary RTD probe for direct immersion into the candy was a perfect solution!

With our three isolated outputs we were able to...

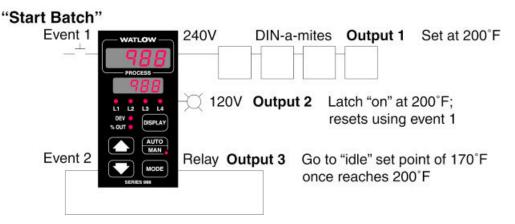
- 1) Output 1...240v control voltage to four DIN-a-mites wired in parallel set at 200°F.
- 2) Output 2...120v control to a pilot light and latch it on at 200°F, (event 1 input resets it).
- 3) Output 3...to be used as an input for "event 2" which tells the control to go to an idle set point of 170°F.

Once we have removed this batch and a new batch is filled, we simply press the "start batch" input and the "pilot light" is turned off and the main set point of 200°F is reinstalled.



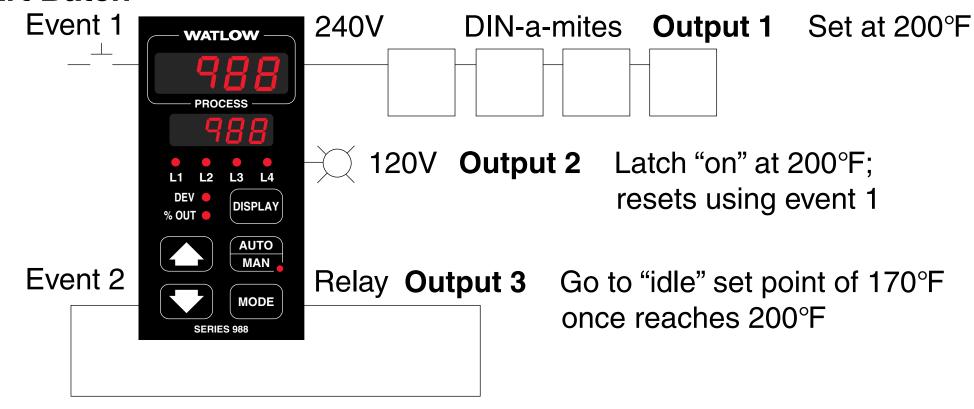
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Series 988 Batch Candy Processing Control System.

# "Start Batch"



Series 988 Batch Candy Processing Control System