



SYNECTIC ELECTRONICS

SY017 Recipe Batch Controller



- Recipe storage up to 100 formulas
- Measures and controls flow from Flow meters
- Can be linked to PC unlimited recipe storage
- Ethernet Addressable for Updates and Diagnostics
- RS232, RS485 or USB data communication.

The SY017 can make products consisting of up to 16 ingredients and up to 100 recipes can be stored in the controller memory. Once the recipes are entered and stored any amount of the finished product can be requested and the batch controller calculates the ratios and makes a batch of the required size/weight. The dispensing of each ingredient is controlled by a separate relay, each with automatic in-flight compensation. Each relay can control the feed of an ingredient and has individual in-flight compensation. Alternatively, the relays can be used in pairs to switch a pump and a valve for each of 8 ingredients. The 17th relay can be used on hopper filling systems as a discharge or to operate a mixer with a timer facility. The operation of each of the relays is indicated by an LED on the front panel. Each of the ingredients can be given a name of up to 8 characters. Recipes can be entered either from the keypad using the up/down arrows or via the RS232 link (if fitted) from a computer or organiser.

Specifications

Inputs	Direct load cell connection with excitation for up to 4, 350R load cells. Input resolution is 0.3uV. Nominal load cell sensitivity is jumper selectable as 1, 2 or 3 mV/V. Flow meter input. Remote Start and Stop buttons can be connected. 4 bit binary coded input for remote ingredient selection.
Power	Nominal 24V DC 200mA (17-30V).
Outputs	Up to 17 relays each rated 6A/270V.
Display	Back-lit LCD with 2 rows of 16 characters, each 9.22mm high.
Communication	Options include the ability to link into a network via RS485 and drive a serial printer via the RS232 port, both are opto-isolated.
EMC	Tested to BS EN 61000-4-21:2011
Case	144mm square DIN43700 panel mounting. Black glass filled Noryl. Overall depth behind panel 124mm.
Expansion	If linked to an SY019 expansion unit the switch inputs, analogue inputs and relay outputs combined in a system can be extended for use in complex systems with 8 of each on an SY019 and the option to link up to 32.

Options

- Flow controller only.
- Weight and Flow controller.
- Serial interface – RS232 or RS485 to link directly to a printer or PC for networking capability.
- Data logger, data accessible via RS232, USB link or USB stick