



Technical Specifications

1200 Series Batch Controller

Provides stand-alone batch-in or batch-out by weight with versions for up to eight ingredients and 9 formulas. Preprogrammed reports including material and formula information as well as audit trail of continuous batch operations.

Choose from three models of batch controllers, depending on the number of ingredients to be controlled. Model 1200 handles one ingredient and is typically used for loadout applications. Models 1220 and 1240 handle four and eight ingredients respectively and are used for mixing and blending applications. The 1200 Series can be programmed to batch-in and batch-out by formula or ingredient.

System setup is done using simple prompts to lead the operator through setup, calibration and operation. The 1200 Series will automatically execute up to 99 batches without operator attention. Access codes can be set to control access to the batch operation and the set-up and calibration functions.

The Management Report Option (MRO) provides a hard copy report of batching operations of the 1200 series controller through the serial port to a serial printer. Three different types of reports are available: a batch audit trail, an accumulator report and system parameter reports. The audit trail provides a record of net ingredient and gross weights, start times, finish times and date. The accumulator report provides ingredient usage, accumulated production of each formula, cancelled batches, miscellaneous batches and total production. System parameter reports show instrument settings such as calibration parameters, display formats, relay setups, ingredient setups and formula setups. These reports can improve plant efficiencies in many ways. A manager using the accumulator report can monitor production and predict inventory requirements. The hard copy of formulas, ingredients and system parameters provides the maintenance department with documentation for easy review and verification. The audit trail provides a detailed record of what happened in the course of every batch.



Features & Benefits

Stand Alone Batch by Weight

Controller provides an effective and repeatable batching control system for up to 8 ingredients.

Self-adjusting Preact

Auto-tunes ingredient weights to provide consistent batches time after time.

Formula Storage

Up to 9 in-system non-volatile memory.

Audit Trail (Management Report Option) Built-in

Preprogrammed reports for ingredient usage, formula production, formula listing, batch controller setup and a continuous record of batch operations.

Specifications

Batching Capabilities

Ingredients: 1200: one; 1220: four; 1240: eight

Formulas: Up to nine can be stored in memory

Slow Feed: Automatic, adjustable by ingredient

Jog: Automatic, adjustable rates

Preact: Automatic, self-adjusting

Tolerance Checks: Over/under weight check, scale zero before batching; display messages and alarm outputs

Accumulator: Ingredient usage, formula production, cancelled batches

Integral Display and Operator Interface

Display: Vacuum fluorescent alphanumeric; two lines 16 characters; character height of 1/4 inches (6 mm)

Data Entry: Integral 25-key alphanumeric sealed membrane tactile keypad

Setup: Menu-driven prompts

Memory: NVRAM (non-volatile RAM)

Transducer/Sensor Input

Transducers/Sensors: All KM half-bridge sensors; full-bridge foil gage

Excitation: Adjustable approx. 8 to 13 VDC. Supplies 160 mA at 12 VDC

Resolution: 16 bit (1 part in 65,536)

Span: Jumper selectable KM or foil gage input

Outputs

Solid-State Relays: Fully isolated, housed in I/O box

Voltage Ratings: 24 to 280 VAC; DC voltage output modules available

Current Rating:

Resistive: 2 amps

Inductive: 1 amp solenoid or NEMA-4 contact

Off-State Leakage: 5mA at 120 VAC or 240 VAC

1200 and 1220: 4 output relays dedicated to ingredient feed valves, setpoints, or alarms; 2 output relays dedicated to batch status/error

1240: 8 output relays dedicated to ingredient feed valves, setpoints or alarms; 2 output relays dedicated to batch status/error; 1 output relay dedicated to step complete

Analog Output: 4-20 mA, fully isolated, maximum load 500 ohms with internal loop supply; selectable net or gross weight

Control Inputs

Solid-State Relays

Input Voltages: 90 to 140 VAC/VDC;

180 to 280 VAC/VDC

Input Current: 11 mA at 140V; 6.5mA at 240V

Input Allowed for No Output: 3mA (45V) (90 to 140 VAC or VDC module); 0.5mA (80V) (180 to 280 VAC or VDC module)

1200 and 1220: 2 inputs (start/stop/cancel)

1240: 5 inputs (start/stop/cancel-remote formula select)

Serial

Two RS-232/422/485

1240-One dedicated to control relay box

Electrical

AC Power: 100, 117, 234 VAC, $\pm 10\%$, 50/60 Hz

Environment

Operating Temperature: 14° to 122° F (-10° to 50° C)

Cold Start: 32° to 122° F (0° to 50° C)

Enclosures: Designed to meet NEMA-4 standards and FCC specifications for RF/EMI emissions

Humidity: 0 to 95% (non-condensing inside enclosure)

Storage: -40° to 158° F (-40° to 70° C)

Physical

Controller Mounting: Wall or panel mount

I/O Box Mounting: Wall mount

Weight: 1200/1220 - 27 lb. (12 kg);

1240 - 35 lb. (15.9 kg)

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