

A batch controller is a device that controls the measurement of fixed volumes and also controls the timing of the mixing, blending, or processing of these volumes into a finished bend. An example would be filling a vat with fixed volumes of liquid or dry goods, and then shaking, heating, or stirring these ingredients to produce a bend of fixed volume. This is different than a continuous process such a chemical injection into a continuous stream.

The process can be a one shot operation, repeat for a predetermined number of cycles, or run indefinitely. With the Series 2200 the process can be started, stopped, or paused by the operator pressing the buttons on the front panel, or from a remote location using the Remote Batch Control Option Card. Several 2200 can also be daisy chained, so that one 2200 passes command to the next for more complex control. The RS232 Option Card can also be used to control the Batch from a PLC or computer.

The Series 2200 is not limited to Badger Meter flow sensors, or for that matter liquid flow. Its analog input options can accept signals such devices as Level, Pressure, Temperature, Load Cell, Strain Gauge, Weight, Viscosity, Continuity, etc.

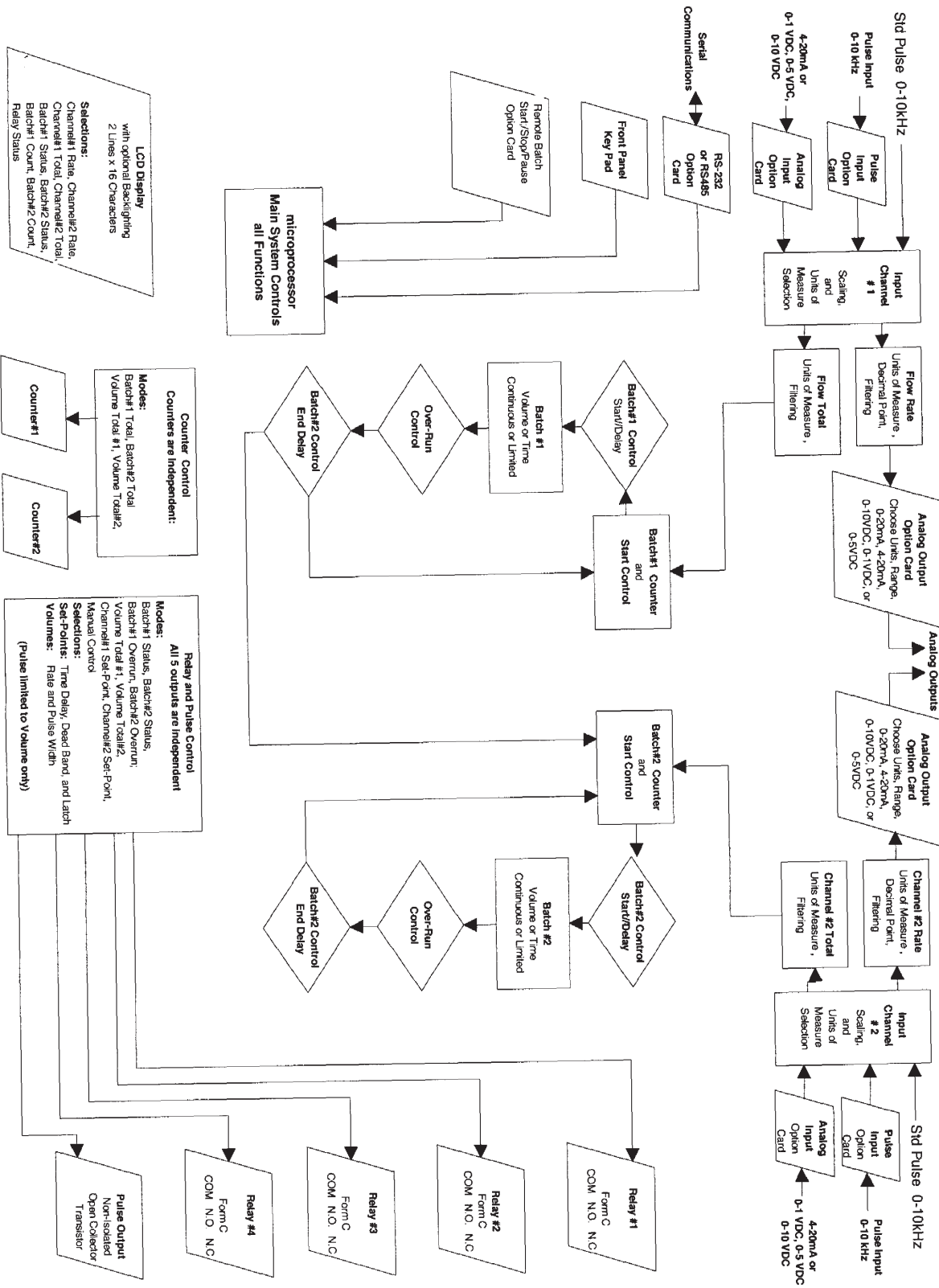
The Series 2200 is a powerful tool, with many combinations of optional advanced features available.

- Dual Batch (Either linked or independent control of two variables)
- Batch can be Time or Volume or both
- Batch Start and End Delays
- Independent Remote Batch Start, Stop, and Pause for each channel.
- Multiple Series 2200's can be Daisy Chained, or controlled by PLC or computer.
- Four (4) Form C Relays (Fully Programmable)
- One (1) Pulse Output (Open Collector Transistor)
- Two (2) Analog Inputs (Flow, Level, Pressure, Temperature, Weight, etc.)
- Operator generated Custom units of measure ( \$/Hr, Lbs, Inches, Psi, Rpm, etc.)
- Two (2) Analog Outputs (Voltage, Current Sinking or sourcing)
- One (1) RS232 or RS485 Communication Card
- Independent Over-Run Control (Compensates on successive batches for overshoot in previous batches due to slow closing valves or other system delays)
- Batch Pre-Warn (Two Stage shut-off)

These features make a powerful tool that can be used for all types of processes, including Paint Production, Ink Production, Bakeries, Truck Filling, Helicopter Loading, etc.

In addition to the information in the Operators Manual the flow chart on the next page may be helpful, in understanding its input, output and programming capabilities.





**LCD Display**  
with optional Backlighting  
2 Lines x 16 Characters

**Selections:**  
Channel#1 Rate, Channel#2 Rate,  
Channel#1 Total, Channel#2 Total,  
Batch#1 Status, Batch#2 Status,  
Batch#1 Count, Batch#2 Count,  
Relay Status

**Counter Control**  
Counters are Independent:

**Modes:**  
Batch#1 Total, Batch#2 Total,  
Volume Total #1, Volume Total#2,  
Counter#1, Counter#2

**Relay and Pulse Control**  
All 5 outputs are Independent!

**Modes:**  
Batch#1 Status, Batch#2 Status,  
Batch#1 Overrun, Batch#2 Overrun,  
Volume Total #1, Volume Total#2,  
Channel#1 Set-Point, Channel#2 Set-Point,  
Manual Control

**Selections:** Time Delay, Dead Band, and Latch  
Set-Points: Rate and Pulse Width  
Volumes: Rate and Pulse Width  
(Pulse limited to Volume only)



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