



# BlendTrac® Software

Enables Smart Blending

## Technical Specifications

BlendTrac® Software collects useful data to help your factory use raw materials in a smarter way. This powerful software is used to centralize inventory control, optimize quality and reduce labor and material costs. BlendTrac® aggregates and presents blending data in a way that helps your operators make well informed decisions and reduce errors.

### CENTRALIZE INVENTORY CONTROL

- Eliminate manual labor dedicated to inventory tracking at each blender
- Download reports on inventory usage
- Track quantity and material type used plant-wide
- Monitor actual usage of materials to signal reorder
- Create resin database of up to 1,000 unique materials and 1,000 locations
- Connect vendor PO for each material

### OPTIMIZE QUALITY

- Log quality metrics on up to 5,000 consecutive batch weights to monitor trends
- Monitor system parameters to improve quality through data acquisition and graphing
- Create blending recipes to avoid manual input errors
- Generate time/date stamped reports and log alarms for quality control

### SAVE LABOR & MATERIAL COSTS

- Monitor key blending parameters/ quality from central or remote location rather than visiting each individual blender
- Reduce cost by precise usage of expensive additives and materials
- Make production changes easy by accessing "millions" of your company's blending recipes
- Maintain up to 100 blenders, monitoring and controlling different recipes for each blender - remote

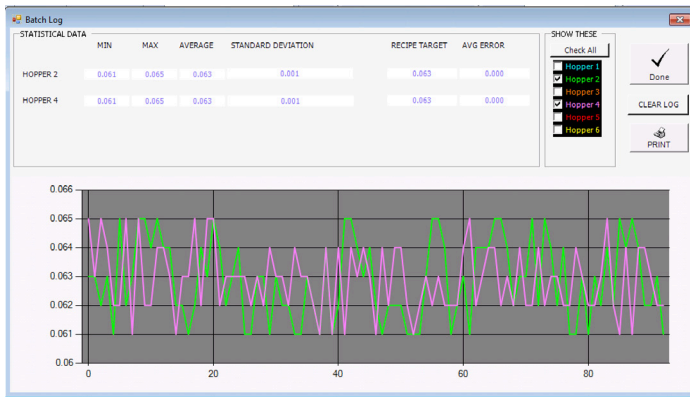
## Features

- Compatible with Windows 10 and 7
- Monitor and/or control up to 100 BD or OA blenders
- Monitor and control recipes for each blender
- Log up to 1000 alarms per blender
- Log up to 5000 consecutive batch weights (target vs actual weights)
- Monitor and record all recipe changes
- Monitor material inventory, even if cleared at the blender
- Data compatible with MS Excel and Access for analysis
- Central System Inventory and Silo Management capability
- Download inventory run rates, run status, target vs. actual recipe set points
- Store an infinite number of recipes (limited only by hard drive space on computer)
- Download recipes to blenders from the recipe book
- Automatically generate time/date stamped reports on an hourly basis
- Two tier password security
- Job Report Manager that tracks material reference numbers as well as lot numbers and silo numbers

### Blender Requirements

- Allen Bradley Micro850 PLC
- Each blender must have an Ethernet switch installed P/N 893.00040.00
- All blenders and the host PC must be on the same Ethernet network. The network installation should use CAT5 cable and be installed by a professional. AEC does not provide installation services for the Ethernet network.

## User Interface



Monitor and graph system parameters to improve quality. The Batch Log page shows the actual weight (batch blenders) or actual % (continuous blenders) of every component of every batch.

The System Inventory screen displays two tables. The first table lists resin products and their amounts:

#	Resin Product Name	Amount
1	PET	67.532999999999...
2	HDPE	32.156000000000...
3	PVC	0.31999999999999...
4	LDPE	3.60200000000000...
5	PP	3.21399999999999...
6	PS	0.06200000000000...
7	Slip	0.71799999999999...
8	UV stabilizer	0
9	black chip	0.64300000000000...
10	blue chip	0
11	red chip	0
12	green chip	0
13	PSC	0
14	PET regrind	0
15	HDPE regrind	7.20600000000000...
16	PVC regrind	0
17	LDPE regrind	0
18	PP regrind	0
19	PS regrind	0

The second table lists locations and their amounts:

#	Location	Amount
1	Silo 1	32.216000000000...
2	Silo 2	16.798
3	Silo 3	0.31999999999999...
4	Silo 4	3.60200000000000...
5	Daybin 1	0.64300000000000...
6	Daybin 2	3.21399999999999...
7	Repro	7.20600000000000...

Total System Inventory: 116.464

Efficiently track material usage by type with the System Inventory screen.

The Virtual Control panel for Blender 6 -- PLC Version 7.4 includes the following sections:

- EZ Mode Recipe:** Change Recipe, Recipe Book, Batch Size: 4, HOPPER 1-6 levels, and a TOTAL: 8.0.
- Inventory:** HOPPER 1: 7.844, HOPPER 2: 0.156, HOPPER 3: 0.0, HOPPER 4: 0.0, HOPPER 5: 0.0, HOPPER 6: 0.0, and a CLEAR INVENTORY button.
- Current Alarms:** A red alarm box indicating "HOPPER 1 Out of Material".
- Control Buttons:** Alarm Log, Batch Log, Blender Running (green), Push to Start or Stop, Abort, Job Report Manager, and Done.

Use the Virtual Control panel to start and stop the blender and to monitor the current recipe and inventories.

The Job Report Manager interface is titled "Job Report Manager /JOB IS NOT CURRENTLY STARTED". It features a "Job Reference Number" input field and "Start Job" and "Finish Job" buttons. The "Material Information" section contains a table for resin selection:

	Resin Product Name and Number	Resin PO Number	Resin Location
HOPPER 1	PET		Please select a location
HOPPER 2	Please select a resin		Please select a location
HOPPER 3	Please select a resin		Please select a location
HOPPER 4	PET		Please select a location
HOPPER 5	PVC		Please select a location
HOPPER 6	LDPE		Please select a location

Additional options include "Cancel" and "Done" buttons.

Use the Report Manager to generate reports about each Job. Information captured can include Inventory Usage, Uptime, Alarms, Recipes, Batch Data including the weight of every component.

Reports can be automatically printed and automatically saved to a location specified by the user.