



# FinePointe v2.7.0

## Designed to Manage Buxco® Respiratory & Inhalation Instrumentation

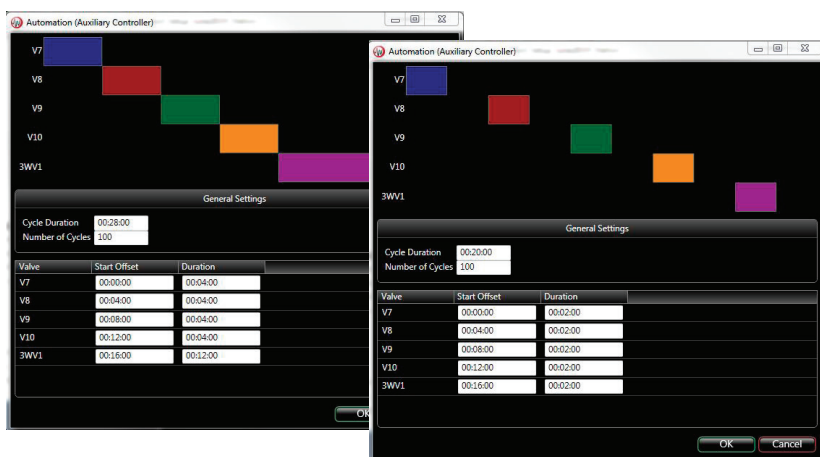
Buxco FinePointe software is powerful and easy-to-use for collecting, analyzing, and reporting life science data.

### Inhalation Enhancements

#### Metered Dose Inhaler (MDI) Aerosol-Complements the MDI Aerosol Generator

Researchers can now bridge the gap between preclinical and clinical inhalation studies.

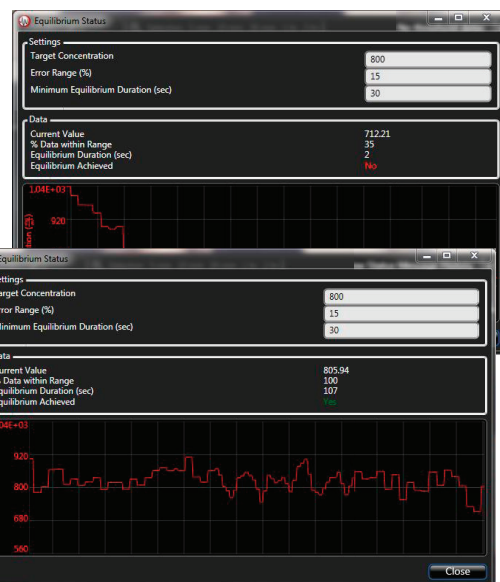
- DSI now offers a one-of-a-kind, fully validated, Metered Dose Inhaler (MDI) Aerosol Generator utilizing MDI canister technology.
- FinePointe v2.7.0 enables the user to fully automate the 5-canister aerosol actuation protocol, achieving a consistent, reproducible exposure with a click of a button.



#### Equilibrium and Aerosol-Bypass Support - Simplify Studies with User Alerts

Unique to DSI, inhalation exposure researchers can monitor and assess aerosol concentration without animal exposure until equilibrium (t99) is reached.

- Utilizing this important feature, subjects are only exposed to targeted concentrations, yielding safe environments and more predictable data.
- Allows the user to define their unique equilibrium properties, and alerts them when they have been achieved, at which point the bypass valve is switched to expose the animals to the proper aerosol levels.



## Respiratory Enhancements

### Derived Parameter Sorting - Examine Data More Efficiently

- Sort any column of data in ascending or descending order
- Select logged data and drill down deeper with the following options:
  - Copy
  - Find in an associated trend graph
  - Find in a historical signal graph
  - Reject section of data from analysis

Time	f	TVb	MVb ▼	Penh
00:55:10	127.5	0.8229	104.7	0.9103
00:54:10	137.5	0.7584	104.3	0.941
00:55:14	115.4	0.8914	104.1	0.8115
00:28:26	131.6	0.7875	103.5	0.9374
00:54:24	123.5	0.8374	103.4	0.6768
-00:07:05.4	224.2	0.4586	102.8	0.1465
00			102.6	5.628
00	Copy		101.6	0.9941
00	Find in trend graph		100.6	1.131
00	Find in historical signal graph		100.5	0.7186
00			99.42	7.468
00	Reject Data		98.93	0.7363
00			98.46	0.6301

### Derived Parameter Alarms - Notification of Critical Events

- Ability to set low and high alarm limits on parameter data
- Alarm conditions are available during acquisition and review
  - Alarm trigger during acquisition generates an audible tone to alert the user
  - Data in derived parameters table will be highlighted in red if it is out of the desired range
- Option to refine results using the Derived Parameter Sorting features

Parameter	Unit	Enable	Lower Limit	Upper Limit
WBP				
f	BPM	<input checked="" type="checkbox"/>	170	200
TVb	ml	<input type="checkbox"/>	0	0
MVb	ml/min	<input type="checkbox"/>	0	0
Penh		<input type="checkbox"/>	0	0
PAU		<input type="checkbox"/>	0	0
Reef		<input type="checkbox"/>	0	0

Time	f	TVb
00:36:32	182.6	0.3193
00:36:54	182.6	0.3193
00:36:56	198	0.2955
00:36:58	217.8	0.3303
00:37:00	216.1	0.3213
00:37:02	204.4	0.3566
00:37:04	194.2	0.3297
00:37:06	182.9	0.3175
00:37:08	181.6	0.3086

### Rejected Breath Utility - Understand Why Breaths Were Rejected

- Easily identify rejected breaths
- Examine any breath rejection notification line using
  - Trend charts
  - Signal charts
  - Derived parameter tables

Time	Message
01:16:32.921	Rejected: Breath out of balance: 19.6 vs (50,150)
01:16:33.014	Rejected: Breath out of balance: 22 vs (50,150)
01:16:33.207	Rejected: Ti out of range: 0.0526 < 0.06 secs.
01:16:34.131	Rejected: Breath out of balance: 5.01 vs (50,150)
01:16:34.214	Rejected: Breath out of balance: 41.5 vs (50,150)
01:16:34.424	Rejected: Breath out of balance: 338 vs (50,150)
01:16:34.841	Rejected: Breath out of balance: 746 vs (50,150)
01:16:35.281	Rejected: Breath out of balance: 177 vs (50,150)
01:16:35.414	Rejected: Breath out of balance: 42.6 vs (50,150)
01:16:35.604	Rejected: Breath out of balance: 153 vs (50,150)
01:16:35.861	Rejected: Breath out of balance: 157 vs (50,150)

### Apnea Analysis Improvement - Improve Apnea Scoring Success

- Identify apneas with single or double criterion:
  - Absolute breath duration threshold
  - Normalized breath duration threshold
  - Combine both conditions

Scoring Interval (hh:mm:ss): 00:00:30
 Breathing Baseline Interval (hh:mm:ss): 00:00:06

**Apnea Definition**

- ☐ Absolute Breath Duration Threshold
- ☐ Normalized Breath Duration Threshold
- ☒ Combined Thresholds

Minimum Apnea Duration (hh:mm:ss): 0:00:01
 ☐ Require only one condition

Percent increase in duration (%): 100.0
 ☐ Require both conditions

Contact your local DSI representative, or visit [datasci.com](http://datasci.com) to learn more.