

# Respiratory Mechanics

## BioSystem XA for Windows Software

### Pulmonary Software Analyzers

#### Whole Body Flow Derived Parameters

Same as Flow Derived Parameters, with Compensation factor, Enhanced Pause, and Pause. (Used exclusively with unrestrained chambers).

#### Resistance/Compliance Covariance

Tidal, Accumulated, and Minute volume, Inspiratory and Expiratory Time, Peak Inspiratory and Expiratory Flow, End Inspiratory and Expiratory Pause, Frequency of breathing, Flow, End expiratory work, Dynamic Compliance, Lung resistance, max Pressure change, and the change in pleural pressure. Also available with Isovolumetric algorithm.

#### Non Invasive Airway Mechanics

Tidal, Accumulated, and Minute Volume, Inspiratory and Expiratory Time, Peak Inspiratory and Expiratory Flow, End Inspiratory and Expiratory Pause, Specific Airway Resistance and Conductance, Relaxation Time, delta Time and flow.

#### Non Invasive Airway Mechanics with Ramp

Same as Non Invasive Airway Mechanics, except the Delta Time parameter is derived via hardware.

#### Whole Body Flow Derived Parameter, Compensated

Same as Whole Body Flow Derived Parameters, with Relative humidity and Temperature.

#### Left Ventricular Pressure

Heart Rate, Mean, Systolic and End Diastolic Left Ventricular Pressure, Min Pressure, Relaxation time, Contractility, Tau and Vmax (index of myocardial contractility).

#### Dose Monitor

Tidal, Accumulated, and Minute Volume. Time, Peak Flow, and End Pause for both Inspiration and Expiration. Frequency of breathing, Concentration, Dose, and Accumulated Dose.

### Cardiovascular Software Analyzers

#### Blood Pressure

Mean, Systolic and Diastolic Pressure, Heart Rate, and Pulse height.

#### Arterial Blood Pressure

Systolic, Mean and Diastolic Pressure, Heart Rate, Ejection Time, Time Tension Index, and Pulse height.

#### Blood Flow

Using a flow and pressure signal, derives - Mean, Max and Min Blood Flow, Stroke Volume, Resistance, Heart Rate, and max DF/dt.

#### ECG Intervals

Heart Rate, RR, QRS, QT, QTc, T, ST, PR, STh, R height and P height.

#### Segment Length

End Diastolic and Systolic Length. Max, Min, and Mean length, Work, max +/- L/dT.

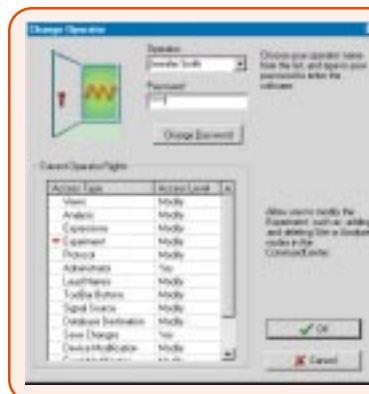
#### ECG Heart Rate

Heart Rate and RR.

#### Catalog No.

#### Product

CGS 8231.69	Whole Body Flow Derived Parameters
CGS 8232.69	Resistance/Compliance Covariance
CGS 8233.69	Non-Invasive Airway Mechanics
CGS 8234.69	Non-Invasive Airway Mechanics with Ramp
CGS 8235.69	Whole Body Flow Derived Parameter, Compensated
CGS 8236.69	Left Ventricular Pressure
CGS 8237.69	Dose Monitor
CGS 8238.69	Blood Pressure
CGS 8239.69	Arterial Blood Pressure
CGS 8240.69	Blood Flow
CGS 8241.69	ECG Intervals
CGS 8242.69	Segment Length
CGS 8243.69	ECG Heart Rate



The login panel allows you to assign user access rights with several levels of security clearance.

### Quality Assurance Features

#### Y2K compliant, GLP Friendly

New Login panel with User ID allows increased security and assignable user rights. An internal program facilitates data modification detection.

#### Exceedingly Reliable

Extensive ISO 9001 and ISO 9000-3 compliant pre-release testing programs insure your reliable data acquisition.

#### Watch dog quality assurance

3 different types of easily accessible audit trails contribute to the quality assurance benefits of the XA for Windows. They are: the User Interface Audit Trail, Internal Audit Trail, and the Calibration Audit file. All three trace different types of changes made to the software.

#### Reports on demand

All experiment information (User Profile, Protocols, Algorithm settings) are saved to a file which can be printed on demand.

#### Validation Reports available

of our rigorous in-house testing of analyzers. Two versions available - detailed methods, with real data or without.

## BioSystem XA for Windows Software

The most comprehensive software program made specifically for pre-clinical biomedical researchers, the BioSystem XA for Windows software acquires and analyzes data from a wide variety of pulmonary, cardiovascular and tissue tension signals. Its powerful extended analysis includes sophisticated breath and beat rejection that helps you eliminate non-compliant data. The real-time scrolling data is presented on screen, in customizable graphs and tables, while simultaneously written to a database.

The BioSystem XA for Windows software installs on any machine running Win 95/98/NT.

### System Requirements

- PC running Windows 95/98/NT
- 450 MHz Pentium II or higher
- 64 MB RAM or more
- A/D card (included with software)

#### Catalog No.

#### Product

CGS 8244.69

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