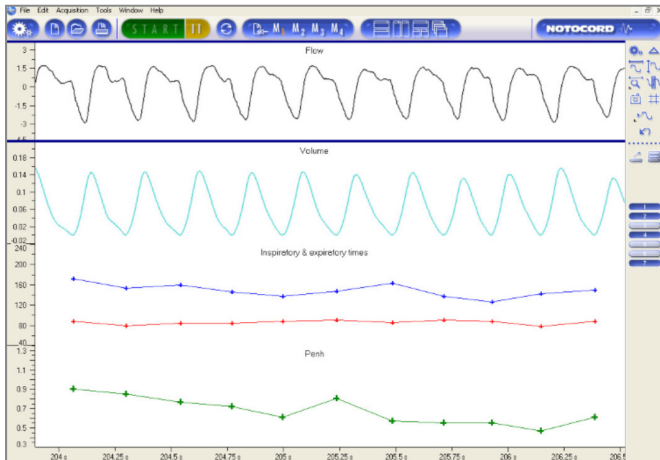


Respiratory Solutions



Whole body plethysmography analysis with PLY30m

NOTOCORD® offers dedicated tools for data acquisition and analysis in respiratory safety studies. Our solutions are fit for a large array of experimental conditions (conscious, anesthetized, etc.) and species.

HARDWARE COMPATIBILITY

NOTOCORD-hem™ collects respiratory signals from any hardware providing BNC analog outputs with DTS60x, our acquisition server for Data Translation devices.

Dedicated acquisition modules are also available for plethysmography experiments: BUX10a automatically identifies Buxco hardware via a USB port connected to the computer. EMS10a demultiplexes channels and ensure continuous measurements of temperature and relative humidity in a EMMS plethysmograph.

IMPEDANCE ANALYSIS

Respiratory impedance signal, as provided by DSI™ D70-PCTR implant for example, is analyzed with RIA30a. It allows indirect assessment of respiratory rate, tidal volume and minute ventilation.

KEY FEATURES

- Online / offline analysis
- Breath by breath analysis
- Plethysmography (WBP & HOP)
- Impedance
- Intra-thoracic pressure
- Pneumotachography
- Airway resistance & conductance
- Lung compliance
- Compliance with ICH S7A Respiratory Core Battery studies

RESPIRATORY MECHANICS

RSP30a, a respiration analyzer for restraint animals, computes airway resistance, lung elastance and standard ventilatory parameters such as instantaneous tidal and minute volumes, respiratory rate, etc.

RESPIRATORY RATE FROM BLOOD PRESSURE

Assessment of respiratory rate from blood pressure during in vivo cardiovascular studies on large animals is performed with RFP10a. The length and the number of periods over which respiratory rate is averaged are user-defined for greater flexibility in data analysis.

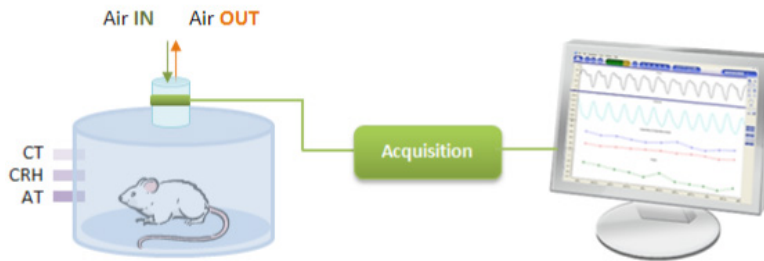
INTRA-THORACIC PRESSURE

TPA30a, our online analyzer for intra-thoracic pressure signal, computes for each respiratory cycle the respiratory rate, depth, minimum and maximum pressures, and inspiratory and expiratory times. TPA30a is compatible with any intra-thoracic pressure catheter.

PLETHYSMOGRAPHY

NOTOCORD® provides analysis modules for the analysis of signals acquired during plethysmography experiments. The signal is first corrected for baseline drift on a cycle-by-cycle basis before any parameter computation.

Extracted respiratory parameters include instantaneous and tidal volumes, respiratory rate, inspiratory and expiratory times, peak inspiratory and expiratory flows.



WBP schematic representation. CT: Chamber Temperature, CRH: Chamber Relative Humidity, AT: Animal Temperature.

PLY30b/m are dedicated to **Whole Body Plethysmography** (WBP) analysis, a setup widely used in basic and preclinical research for non-invasive pulmonary measurements of conscious and unrestrained animals. They both compute Enhanced pause parameter (PENH) but are designed for different species and offer different conditions for animal temperature, chamber temperature and chamber relative humidity.

PLY30h is a respiratory flow signal analyzer for **Head-Out Plethysmography** (HOP) experiments. It is suitable for animals with respiratory rate up to 600 breaths/minute.

+ Related products

BUX10a	Buxco MAX II / MAX 1500 acquisition server
EMS10a	Demultiplexer for EMMS hardware
PLY30b	Whole body plethysmography respiration analyzer
PLY30h	Head-out plethysmography respiration analyzer
PLY30m	Whole body plethysmography respiration analyzer with correction
RFP10a	Respiration rate from blood pressure for large animals
RIA30a	Respiratory impedance analyzer
RSP30a	Restraint animal respiration analyzer
TPA30a	Intra-thoracic pressure analyzer

Respiratory Solutions

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Working in a GLP environment?

21 CFR Part 11 compliance is achieved via our AccessManager security application, activating a highly secure and compliant Audit Trail.



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