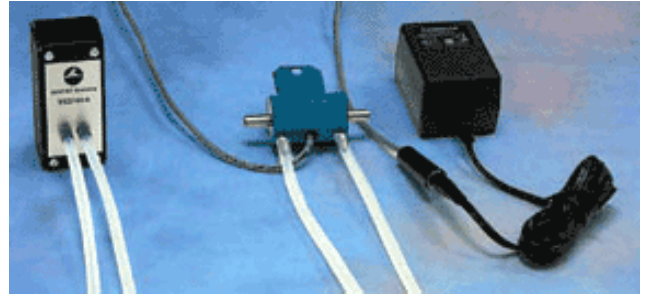


TSD137A PNEUMOTACH

The TSD137 series pneumotachs can be used to perform a variety of small animal pulmonary measurements relating to airflow, lung volume and expired gas analysis. The TSD137 series consists of a low flow, pneumotach airflow head (RX137A through RX137E) coupled to a precision, highly sensitive, differential pressure transducer (TSD160A). The TSD137 series pneumotachs will connect directly to a breathing circuit or plethysmogram chamber. For airflow and lung volume measurements, connect a short airflow cannula to the TSD137 series flow head. All of the TSD137 series pneumotachs come equipped with an internal heating element that can be optionally attached to the AC137A 6 volt power supply.



TSD137 Calibration

Connect tubing and a flow restrictor between the calibration syringe and the TSD137 transducer, then follow the procedure for TSD117 but move the calibration syringe plunger at a reduced velocity due to the very high sensitivity to flow of the TSD137 series. Each of the TSD137 series comes factory calibrated to a known flow level, as indicated on the transducer.

TSD137A Specifications

Unit	Range (ml/sec)	Dead Space (cc)	Nominal Output (μ V/[ml/sec])	Flow Ports (OD-mm)	Approx. Size	Animal Approx. Weight
TSD137A	± 12	0.1	25.7	7	Small Mouse	30 g
Nominal Output: Normalized to 1 V excitation						
Tubing Length: 1.8 m (to TSD160A)						
Interface: DA100C						

Discontinued Product: TSD137A was discontinued in 2012.