

TSD127 PNEUMOTACH AIRFLOW TRANSDUCER



The TSD127 can perform a variety of pulmonary measurements relating to airflow, lung volume and expired gas analysis. The TSD127 is intended for animal and human use and consists of a pneumotach airflow head (RX127) coupled to a precision, highly sensitive, differential pressure transducer (TSD160A). The TSD127 will connect directly to a breathing circuit or plethysmogram chamber. The detachable flow head (RX127) makes cleaning and sterilization easy.

- For airflow and lung volume measurements, connect a short airflow cannula to the TSD127.
- For measurements of expired gases, use the TSD127 with the AFT22 non-rebreathing valve.
- All connections can be performed with AFT11 series couplers.
- For ventilator testing CPAP mode validation, the TSD127 can be added to the [VVK100-SYS](#) Ventilator Validation Kit for very low flow and unidirectional measurements (less than 50 L/min); to review specific testing requirements and recommended physical configurations for flow testing over multiple dynamic ranges, [contact BIOPAC](#).
- Calibration, noise and accuracy data: download [TSD127 to TSI4000 flow standard \(xls and txt\)](#)

TSD127 CALIBRATION

Follow the procedure for TSD117 but move the calibration syringe plunger at a reduced velocity due to the higher sensitivity to flow of the TSD127.

See also: DA100C Calibration options.

TSD127 SPECIFICATIONS

Range:	± 90 liters/min (±1.5 liters/sec)	Dimensions:	5.7 cm (long) – airflow head
Nominal Output:	500 µV/[liters/sec] (normalized to 1 V excitation)	Ports:	15 mm OD / 11 mm ID
Dead Space:	11 cc	Tubing Length:	1.8 meters (to DA100C)
Weight:	11 grams – airflow head	Interface:	DA100

RX127 REPLACEMENT AIRFLOW HEAD

The RX127 is a low airflow head for the TSD127 pneumotach transducer. Multiple RX127 heads help eliminate equipment downtime during cleaning procedures. (11 mm ID/15 mm OD)

