

**PNEUMOTACH 200 SERIES AIRFLOW TRANSDUCERS**

These flow transducers are designed for humans and animals ranging in size from mice to medium-sized dogs. They include a detachable flow head (RX237B through H) and a differential pressure transducer (TSD160A or SS40L).



**Available Flow Rates**

17 ml/sec	Mouse/Rat
167 ml/sec	Cat/Rabbit
1.67 L/sec	Medium Dog
16.7 L/sec	Human

- Lightweight and robust
- Linear and direction sensitive
- Twin, non kink silicone tubing
- Economical, sensitive and robust
- Easily cleaned, disinfected or sterilized

For cleaning instructions, see the [Cleaning Guidelines](#).

**MRI Usage:** MR Conditional

**Condition:** Animal use only. Contains ferrous material ó must be clamped down in the safe MRI operating area.

**Components:** Brass, stainless steel, copper

**RX237 SERIES REPLACEMENT AIRFLOW HEADS**

For TSD237 and SSLA Series Pneumotachs

Detachable flow heads in are machined from acetal to give good stability with low weight and have found application in pediatrics and in the respiration measurement of animals such as dogs, cats, rats and mice.

**TSD/SSLA/RX237 Series Specifications**

BIOPAC Part #		Flowhead Type	Dead Space (ml)	Linear Range L/min	Approx. Flow for 10 mm H <sub>2</sub> O	Tube (OD mm)	Length (mm)	Weight (gm)
Transducer	Flowhead							
TSD237B/SS46LA	RX237B	F1L	0.6	± 1	1.2 L/min	5	40	14
TSD237D/SS48LA	RX237D	F10L	2	± 10	12 L/min	8	54	22
TSD237F/SS50LA	RX237F	F100L	9	± 100	90 L/min	16	54	38
TSD237H	RX237H	F1000L	320	± 1000	485 L/min	29.5	198	260

**Note:** One of the problems historically encountered with pneumotachographs is condensation from expired air. This can be prevented by fitting a non-return valve and measuring only inspiration or alternatively by heating the flowhead, but viscosity errors may arise (from which in the first few breaths especially) preheat the inspired air most uncomfortably. In this range of flow heads, **the problem is approached from a fresh angle**. By mounting fine stainless steel gauze in plastic rings, thermal inertia is greatly reduced. The gauze therefore rapidly equilibrates in temperature with passing air and condensation is minimal.