

TSD160 SERIES – HIGH SENSITIVITY DIFFERENTIAL PRESSURE TRANSDUCERS



The TSD160 series differential pressure transducers are designed for low range pressure monitoring. The transducers plug directly into the DA100C general-purpose differential amplifier. The differential pressure ports are located on the front of the transducers and are easily connected to breathing circuits, pneumotachs or plethysmograph boxes. These transducers are very useful for interfacing a variety of small animal pneumotachs or plethysmographs to the MP System. The transducers are extremely sensitive and come in three ranges to suit a number of different applications. RX137 heads connect to the TSD160A differential pressure transducer via standard 3 mm or 4 mm ID tubing.

TSD160 SERIES SPECIFICATIONS

Part	TSD160A	TSD160B	TSD160C	TSD160D	TSD160E	TSD160F
Operational Pressure:	±2.5 cm H ₂ O	±12.5 cm H ₂ O	±25 cm H ₂ O	±75 cm H ₂ O	±350 cm H ₂ O	±1,000 cm H ₂ O
Overpressure (max):	±250 cm H ₂ O	±380 cm H ₂ O	±380 cm H ₂ O	±700 cm H ₂ O	±700 cm H ₂ O	±4,200 cm H ₂ O
Voltage Output (normalized to 1 v excitation)	327.5 μV/cm H ₂ O	131 μV/cm H ₂ O	65.5 μV/cm H ₂ O	21.9 μV/cm H ₂ O	14.22 μV/cm H ₂ O	7.11 μV/cm H ₂ O

- Warm-up Drift: ±50μV
- Stability: ±100μV
- Operating Temperature: 0°C to +50°C (compensated)
- Storage Temperature: -40°C to +125°C
- Combined Linearity and Hysteresis Error: ±0.05%
- Dynamic Response: 100 Hz
- Connection Ports: Accepts 3 mm to 4.5 mm ID tubing
- Dimensions: 8.3 cm (high) x 3.8 cm (wide) x 3.2 cm (deep)
- Weight: 76 g
- Interface: DA100C

TSD160 SERIES CALIBRATION

Use the [AFTCAL-160](#) NIST-certified Differential Pressure Manometer (range ±2 psi, ±140.6 cm H₂O) to calibrate the TSD160 series of differential pressure transducers.