

IMPEDANCE TUBES

SW230/SW260/SW433/SW463/SW422/SW477

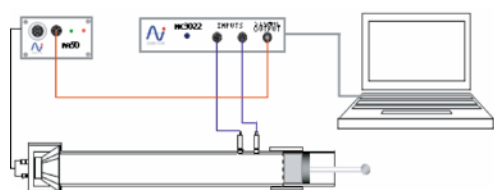
SW series Impedance Tubes can accurately measure sound absorption coefficients and impedance according to standards described in ISO10534-2 (1998). They are based on the Transfer Function Method, which is much faster than the commonly used Standing Wave Ratio Method. The Transfer Function Method separates the incident and reflected energy from the measured transfer function, and then estimates the acoustic properties of the tested sample located at the end of the tube.

BSWA offers the complete set of Impedance Tube system, which includes: the tubes, microphones; DAQ hardware and measurement software.

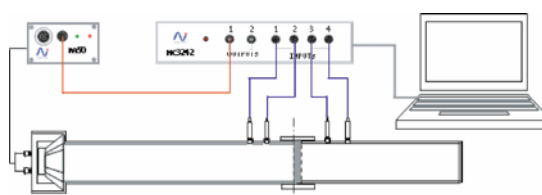


BSWA 1/4" microphones MPA416, which have excellent phase matches, is ideal for impedance applications. The microphones are directly connected to optional 2-channel MC3022 or 4-channel MC3242 data acquisition hardware. PA50 power amplifier is used to drive the loud speaker in the impedance tube. The BSWA VA-Lab software provides all measurement functions for sound absorption and transmission loss testing.

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Impedance Tube System for Sound Absorption Measurement



Impedance Tube System for Transmission Loss Measurement

SPECIFICATIONS

IMPEDANCE TUBES SW230/SW260/SW433/SW463/SW422/SW477						
Model	SW230	SW260	SW433	SW466	SW422	SW477
Value to be Measured	Sound Absorption Coefficient (α)		Sound Absorption Coefficient (α) and Transmission Loss(TL)			
Standard	GB/T-18696, 2-2002, ISO10534-2, 1998		Sound Absorption Standard: GB/T-18696, 2-2002, ISO10534-2, 1998;Transmission Loss(TL) Standard in Discussion			
Frequency Range (Hz)	125 ~ 3150	125 ~ 6300	125 ~ 3150	125 ~ 6300	50 ~ 1800	1600 ~ 6300
Inner Diameter of Testing Tube	60 mm	60 mm for low frequency; 30 mm for high frequency	60 mm	60 mm for low frequency; 30 mm for high frequency	100 mm	30 mm
Loud speaker	4 " in diameter, 20 Watts, 8 Ohm					
OPTIONAL ITEMS PROVIDED BY BSWA						
1/4" Microphone	MPA416					
Data Acquisition Card	MC3022+PA50 or MC3522		MC3242			
Power Amplifier	PA50					
Software	VA-Lab2 Basic + VA-Lab2 IMP-A		VA-Lab4 Basic + VA-Lab4 IMP-AT			