

# PLACID Impedance Tubes

## Sound Absorption

## Sound Transmission Loss



ISO10534-2, ASTM E1050-08

ASTM E2611-09

### Acoustic material testing

Sound Absorption Coefficient ( $\alpha$ )

Sound Transmission Loss (TL)

Standard lists: ISO10543-2, ASTM E1050-08, ASTM E2611-09, GB/T-18696

Frequency Range: 63 Hz to 6300 Hz



### Features

Transfer function method 2 microphones

Wide range testing

Plug and play DAQ system



### Specifications

<b>Type PI8810:</b>	Inner diameter 100 mm
<b>Frequency Range:</b>	63 Hz to 1600 Hz
<b>Type PI8803:</b>	Inner diameter 30 mm
<b>Frequency Range:</b>	800 Hz to 6300 Hz
<b>Measurements:</b>	Sound Absorption, Sound Transmission Loss
<b>Data acquisition:</b>	4 Channels ICCP input A/D converter 16/24 bit
<b>Microphones:</b>	1/4" Class1 20 Hz to 20 kHz with BNC to SMB connector
<b>Power amplifier:</b>	35 W. ultralow distortion
<b>Sound source:</b>	4" loudspeaker 20W 4ohm.
<b>Sound calibrator:</b>	94/114 dB at 1000 Hz
<b>Standards:</b>	ISO10543-2, ASTM E1050-08, ASTM E2611-09, GB/T-18696
<b>Ambient conditions:</b>	0 -40 °C(32 – 140°F), 10 – 90%RH, 650 –1080hpa
<b>Storage temperature &amp; humidity:</b>	-10 - 50 °C(14 – 122°F), 0 – 70%RH

### Applications

Materials manufacture

R&D

Benchmarking

Automotive parts

Quality control

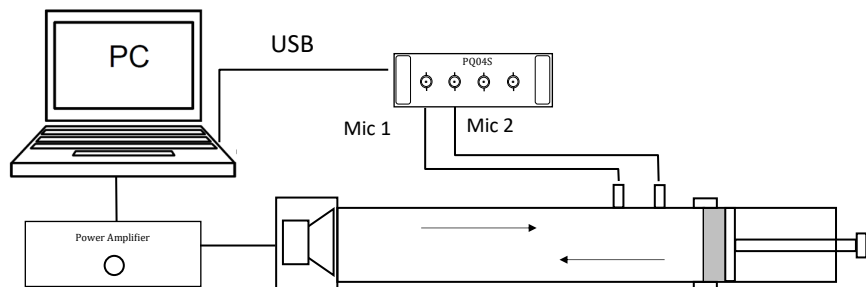
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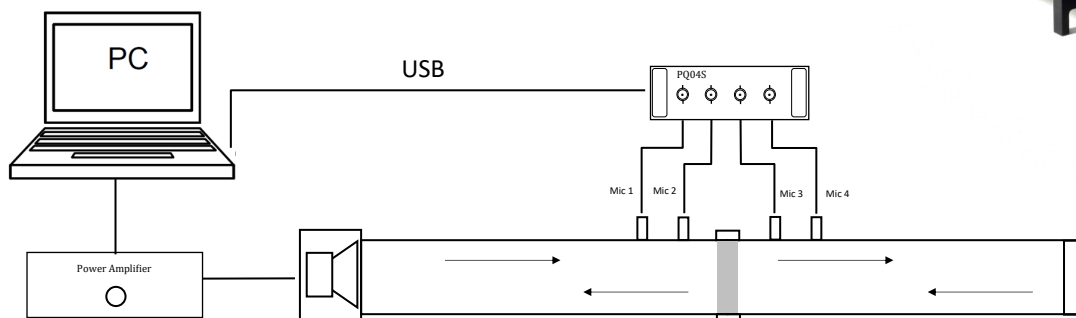
## Sound Absorption measurement setup



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## Sound Transmission Loss measurement setup



## Descriptions

Measurements	Sound Absorption	Sound Transmission Loss
<b>Tubes:</b>	63Hz to 1600 Hz 100mm Diameter tube 100mm Sample holder 800 to 6300 Hz 30mm Diameter tube 30mm Sample holder	63Hz to 1600 Hz 100mm Diameter tube 100mm Extension tube 800 to 6300 Hz 30mm Diameter tube 30mm Extension tube
<b>Data acquisition:</b>	4 Channels ICCP input A/D converter 16/24 bit	4 Channels ICCP input A/D converter 16/24 bit
<b>Microphones:</b>	X2 1/4" Class1 20 Hz to 20 kHz with BNC to SMB connector	X4 1/4" Class1 20 Hz to 20 kHz with BNC to SMB connector
<b>Microphones cable:</b>	X2 4m BNC to SMB	X4 4m BNC to SMB
<b>Power amplifier:</b>	35 W. ultralow distortion	35 W. ultralow distortion
<b>Power amplifier cable:</b>	2m Banana cable	2m Banana cable
<b>Sound source:</b>	4" loudspeaker 20W 4ohm.	4" loudspeaker 20W 4ohm.
<b>Sound calibrator:</b>	94/114 dB at 1000 Hz	94/114 dB at 1000 Hz
<b>Measurement Software:</b>	Sound Absorption testing	Sound Transmission Loss testing

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