

AcousticProducts



Measuring system AED 1400 – AcoustiTube® HighTemp

Fields of Application

Among other things, the operational area of the measuring system includes:

- measurement of the spectral transmission loss of silencers and mufflers at high temperatures in a transmission tube
- application of measurement data as input parameters for calculating the spectral transmission loss and the spectral insertion loss of complete systems of silencers and mufflers by means of the analysis software AED 8001 – AcoustiCalc® (e. g. installation of a measured muffler within a complete exhaustion system)
- · application as impedance tube

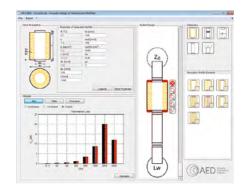
Software

The measuring system AED 1400 is supported by the analysis software AED 1401.



speaker

- application of the Two Source Method for determining the transmission loss and the transfer matrix of silencers and mufflers as a function of frequency
- comfortable storage and management of measurement data in database system
- direct comparison of measurement results with simulation results of the analysis software AED 8001 – AcoustiCalc® by means of the AED Data Viewer
- · calculation of third octave band spectra, octave band spectra and average values



Calculation of acoustic efficiency of a muffler that was evaluated by the measuring system AED 1400 – AcoustiTube® HighTemp within a complete exhaustion system by means of the analysis software AED 8001 – AcoustiCalc®

Technical Data

Transmission tube system

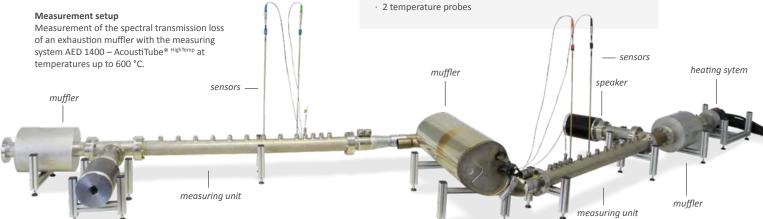
- · consisting of each 2 measuring units, speakers and mufflers
- $\cdot \ \ \text{robust construction}$
- $\cdot\,$ temperature durability of all components: up to 600 °C
- $\cdot\,$ frequency range: 20 Hz 3.000 Hz
- · high flexibility by 13 selectable positions for microphone probes per measuring unit

Heating system

- · consisting of heater and ventilator
- · independent feedback control system
- · max. temperature: 650 °C (at the output of the heater)
- · max. volume flow: 6.000 l/min (ventilator at 3.600 rpm)

Sensors

· 6 microphone probes





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