



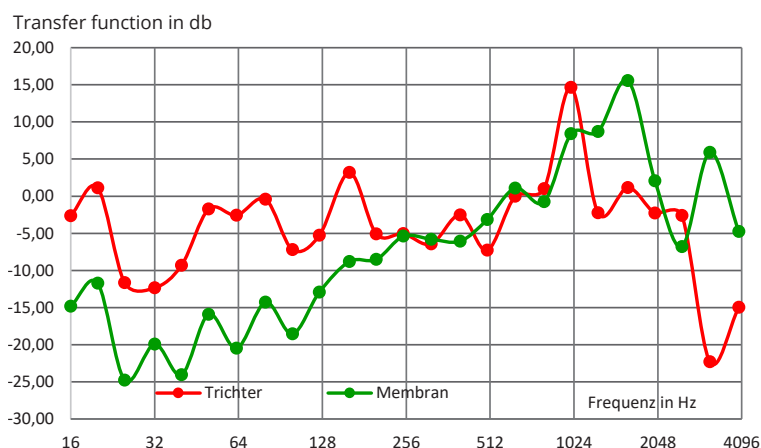
CERTIFICATE

Stethoscope: Profi-Kardiologie

Acoustic transfer function of this stethoscope

Measurement result:

	good	very good	excellent
Sick heart (160-2000 Hz)			
Vascular sounds (100-2000Hz)			
Blood pressure (100-2000Hz)			
Pulmonary sounds (100-2000Hz)			
Bowel sounds (16-1000 Hz)			



Information about the measurement procedure:

The unique measuring station was developed by KaWe - KIRCHNER & WILHELM GmbH in cooperation with the Ulm University of Technology. The measurement is carried out with individual frequencies according to the acoustic sequence of thirds according to EN ISO 266. The transfer function refers to a reference measurement without stethoscope.

While human hearing can perceive frequencies between 16 Hz and 20,000 Hz, the frequency range that can be perceived during auscultation is in the range of 16 Hz to 4000 Hz.

Example:

Heart sounds healthy heart: 16 Hz - approx. 1000 Hz, Focus: 16 Hz - 200 Hz

Heart sounds in aortic valve insufficiency: 16 Hz - approx. 2000 Hz

The quantitative characteristic values for the test items thus determined do not represent absolute values. They relate only to the measuring station shown and the measuring method used and cannot be compared with values determined by other methods. Only different stethoscopes or stethoscope parts can be compared relative to each other. The dB data cannot be interpreted as absolute values.