

ACCREDITATION SCOPE OF CALIBRATION LABORATORY Nr AP 146

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AP 146	Name and address SVANTEK Sp. z o.o. CALIBRATION LABORATORY ul. Strzygłowska 81 04-872 Warsaw
Category of laboratory: Acting in constant headquarters (S)	Areas of accreditation ¹⁾ Acoustics and ultrasounds (2.01, 2.03)

Wersja strony: A

¹⁾ The numbering of fields and sub-fields in accordance with the classification given in the Annex to document DAP-04, available online at www.pca.gov.pl

DEPUTY DIRECTOR

TADEUSZ MATRAS

This document is an addendum to the Certificate of Accreditation Nr AP 146 from 05.12.2012
Accreditation status and current scope of accreditation can be confirmed on the website of the PCA www.pca.gov.pl

Name of the physical quantity and the type of measuring instrument		Measurement range	Calibration and Measurement Capability (CMC)	Lab. Cat.	Identification of the method
2. Acoustics and ultrasounds					
2.01	Acoustics				
	Acoustic calibrators: - sound pressure level	90 dB ÷ 120 dB (rel. to 20 µPa) nominal frequency: 1 kHz	0.08 dB	S	IN-01 (IEC 60942)
	Sound level meters: - response to a signal from the acoustic calibrator - response to the electrical measurement signals - frequency response of the sound level meter in the free field	90 dB ÷ 120 dB (rel. to 20 µPa) 0 dB ÷ 140 dB (rel. to 20 µPa) frequency range: 20 Hz ÷ 20 kHz 20 Hz ÷ 20 kHz frequencies: 125 Hz, 1 kHz, 4 kHz 8 kHz	0.2 dB 0.2 dB 0.3 dB 0.4 dB		IN-02 (IEC 61672)
	1/1 and 1/3 octave filters: - relative attenuation	0 dB ÷ 100 dB; ≤ 70 dB > 70 dB centre frequency of the filter 20 Hz ÷ 20 kHz	0.2 dB 0.3 dB		IN-04 (IEC 61260)
	Personal sound exposure metres - response to signal from acoustic calibrator - response to electrical measurement signals - frequency characteristics in the free field, expressed in dB, rel. to 20 µPa	Sound pressure level of the calibrator: 90 dB ÷ 120 dB, measurement time: 60 s ÷ 120 s 0.3 Pa ² h ÷ 105 Pa ² h 63 Hz ÷ 4 kHz 4 kHz ÷ 8 kHz	4.0 % 3.0 % 0.4 dB 0.6 dB		IN-03 IEC 61252
2.03	Mechanical vibrations				
	Vibration transducers - reference sensitivity - frequency response	(0.1 ÷ 1000) pC·m ⁻¹ ·s ⁻² (0.1 ÷ 1000) mV·m ⁻¹ ·s ⁻² frequencies: 16 Hz and 80 Hz 0.5 Hz ÷ 2 kHz frequencies: 0.5 Hz ÷ 0.8 Hz 1 Hz ÷ 16 Hz 20 Hz ÷ 500 Hz 630 Hz ÷ 2000 Hz	1.8 % 2.3 % 2.1 % 1.8 % 2.1 %	S	IN-07 (ISO 16063-21:2003)
	Human response to vibration - Measuring instrumentation - response to reference signal to mechanical signal - response to reference signal to electrical signal - frequency characteristics of the meter for mechanical signals for Wk, Wd filters - frequency characteristics of the meter for mechanical signals for Wh filter - frequency response to electrical signal - response to electrical measurement signals	1 ms ⁻² for 15.915 Hz 10 ms ⁻² for 79.580 Hz 1 ms ⁻² for 15.915 Hz 10 ms ⁻² for 79.580 Hz frequencies: 0.5 Hz ÷ 0.63 Hz 0.8 Hz ÷ 1 Hz 1.25 Hz ÷ 125 Hz 160 Hz frequencies: 8 Hz ÷ 20 Hz 25 Hz ÷ 500 Hz 630 ÷ 1600 Hz 2000 Hz 0.25 Hz ÷ 2 kHz - linearity - response to impulse signal	1.8% 1.8% 3.3 % 2.9 % 2.5 % 2.6 % 2.3 % 2.1 % 2.3 % 2.4 % 1.3 % 1.5 % 2.6 %	S	IN-08 (ISO 8041:2008)
	Vibration calibrators	for frequency and acceleration nominal values: 16 Hz, 1 ms ⁻² ; 80 Hz, 10 ms ⁻² 160 Hz, 10 ms ⁻² ; 630 Hz, 10 ms ⁻²	1.5 %	S	IN-06
	Meters for vibration of machines - response to reference signal for mechanical signal - frequency characteristics of the meter for mechanical signals - frequency characteristics of the meter for electrical signals	10 ms ⁻² for 80 Hz frequencies: 8 Hz ÷ 20 Hz 25 Hz ÷ 500 Hz 630 Hz ÷ 1600 Hz 2000 Hz frequencies: 8 Hz ÷ 2000 Hz	1.8 % 2.3 % 2.1 % 2.3 % 2.4 % 1.3 %	S S	IN-10 IN-10

Edition: A

The Calibration and Measurement Capability (CMC) is the expanded uncertainty at a confidence level of app. 95%. Value expressed as a percentage refers to the percentage of the measured value. In other cases, the CMC is expressed in units of the measured value.

List of changes Accreditation Scope No. AP 146

Status of changes: the original version – A

Approved status of changes

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