Acoustics, Ultrasound and Vibration, Poland, GUM (Glowny Urzad Miar, Central Office of Measures)

Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					
Quantity	**Instrument or Artifact**	**Instrument Type or Method**	**Minimum value**	**Maximum value**	**Units**	**Parameter**	**Specifications**	**Value**	**Units**	**Coverage Factor**	**Level of confidence**	**Is the expanded uncertainty a relative one?**	**Comments**
Sound pressure response level	Sound level meter	Polish regulation issued by the President of GUM consistent with OIML R58 and R88	73	125	dB (reference: 20 µPa)	Frequency	1 kHz	0.2	dB	2	95%	No	Approval on 29 September 2004
Sound pressure level	Pistonphone or sound calibrator single frequency 160 Hz to 1 kHz	Calibrated measurement microphone	70	130	dB (reference: 20 µPa)	Microphone type	LS1P	0.05	dB	2	95%	No	Approval on 29 September 2004
Sound pressure level	Pistonphone or sound calibrator single frequency 160 Hz to 1 kHz	Calibrated measurement microphone	70	130	dB (reference: 20 µPa)	Microphone type	WS1P	0.06	dB	2	95%	No	Approval on 29 September 2004
Sound pressure level	Pistonphone or sound calibrator single frequency 160 Hz to 1 kHz	Calibrated measurement microphone	70	130	dB (reference: 20 µPa)	Microphone type	LS2P	0.06	dB	2	95%	No	Approval on 29 September 2004
Sound pressure level	Pistonphone or sound calibrator single frequency 160 Hz to 1 kHz	Calibrated measurement microphone	70	130	dB (reference: 20 µPa)	Microphone type	WS2P	0.06	dB	2	95%	No	Approval on 29 September 2004
Pressure sensitivity level	Measurement microphone type LS1	IEC 61094-2:1992			dB (reference: 1 V/Pa)	Frequency	63 Hz to 2.0 kHz	0.03	dB	2	95%	No	Approval on 29 September 2004
Pressure sensitivity level	Measurement microphone type LS1	IEC 61094-2:1992			dB (reference: 1 V/Pa)	Frequency	2.5 kHz to 4 kHz	0.04	dB	2	95%	No	Approval on 29 September 2004
Pressure sensitivity level	Measurement microphone type LS1	IEC 61094-2:1992			dB (reference: 1 V/Pa)	Frequency	5 kHz to 8 kHz	0.05	dB	2	95%	No	Approval on 29 September 2004
Pressure sensitivity level	Measurement microphone type LS1	IEC 61094-2:1992			dB (reference: 1 V/Pa)	Frequency	10 kHz	0.09	dB	2	95%	No	Approval on 29 September 2004

Acoustics, Ultrasound and Vibration, Poland, GUM (Glowny Urzad Miar, Central Office of Measures)

Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					
Quantity	**Instrument or Artifact**	**Instrument Type or Method**	**Minimum value**	**Maximum value**	**Units**	**Parameter**	**Specifications**	**Value**	**Units**	**Coverage Factor**	**Level of confidence**	**Is the expanded uncertainty a relative one?**	**Comments**
Pressure sensitivity level	Laboratory standard microphone type LS2	IEC 61094-2:1992			dB (reference: 1 V/Pa)	Frequency	63 Hz to 6.3 kHz	0.05	dB	2	95%	No	Approval on 29 September 2004
Pressure sensitivity level	Laboratory standard microphone type LS2	IEC 61094-2:1992			dB (reference: 1 V/Pa)	Frequency	8 kHz	0.06	dB	2	95%	No	Approval on 29 September 2004
Pressure sensitivity level	Laboratory standard microphone type LS2	IEC 61094-2:1992			dB (reference: 1 V/Pa)	Frequency	10 kHz	0.07	dB	2	95%	No	Approval on 29 September 2004
Pressure sensitivity level	Laboratory standard microphone type LS2	IEC 61094-2:1992			dB (reference: 1 V/Pa)	Frequency	12.5 kHz	0.08	dB	2	95%	No	Approval on 29 September 2004
Pressure sensitivity level	Laboratory standard microphone type LS2	IEC 61094-2:1992			dB (reference: 1 V/Pa)	Frequency	16 kHz	0.09	dB	2	95%	No	Approval on 29 September 2004
Pressure sensitivity level	Laboratory standard microphone type LS2	IEC 61094-2:1992			dB (reference: 1 V/Pa)	Frequency	20 kHz	0.17	dB	2	95%	No	Approval on 29 September 2004
Charge sensitivity (magnitude)	Standard accelerometer	Comparison, ISO 16063-21	1E-13	1E-12	$C/(m/s^2)$	Frequency	20 Hz to 5 kHz	1	%	2	95%	Yes	Approval on 29 September 2004
Voltage sensitivity (magnitude)	Acceleration measuring chain	Comparison, ISO 16063-21			$V/(m/s^2)$	Frequency	20 Hz to 5 kHz	0.8	%	2	95%	Yes	Approval on 29 September 2004
Charge sensitivity (magnitude)	Accelerometer	Comparison, ISO 16063-21	1E-13	1.2E-10	$C/(m/s^2)$	Frequency	12.5 Hz to 20 Hz	1.6	%	2	95%	Yes	Approval on 29 September 2004
Charge sensitivity (magnitude)	Accelerometer	Comparison, ISO 16063-21	1E-13	1.2E-10	$C/(m/s^2)$	Frequency	25 Hz to 2.5 kHz	1.3	%	2	95%	Yes	Approval on 29 September 2004

Acoustics, Ultrasound and Vibration, Poland, GUM (Glowny Urzad Miar, Central Office of Measures)

Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					
Quantity	**Instrument or Artifact**	**Instrument Type or Method**	**Minimum value**	**Maximum value**	**Units**	**Parameter**	**Specifications**	**Value**	**Units**	**Coverage Factor**	**Level of confidence**	**Is the expanded uncertainty a relative one?**	**Comments**
Charge sensitivity (magnitude)	Accelerometer	Comparison, ISO 16063-21	1E-13	1.2E-10	$C/(m/s^2)$	Frequency	3.15 kHz to 5 kHz	1.6	%	2	95%	Yes	Approval on 29 September 2004
Voltage sensitivity (magnitude)	Acceleration measuring chain	Comparison, ISO 16063-21			$V/(m/s^2)$	Frequency	12.5 Hz to 20 Hz	1.5	%	2	95%	Yes	Approval on 29 September 2004
Voltage sensitivity (magnitude)	Acceleration measuring chain	Comparison, ISO 16063-21			$V/(m/s^2)$	Frequency	25 Hz to 2.5 kHz	1.2	%	2	95%	Yes	Approval on 29 September 2004
Voltage sensitivity (magnitude)	Acceleration measuring chain	Comparison, ISO 16063-21			$V/(m/s^2)$	Frequency	3.15 kHz to 5 kHz	1.4	%	2	95%	Yes	Approval on 29 September 2004
Acceleration (magnitude)	Calibrator	Calibrated standard accelerometer	3.16	10	m/s^2	Frequency	159.2 Hz and 79.6 Hz	0.8	%	2	95%	Yes	Approval on 29 September 2004