



Price List

Item No.	Description	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
Calibration Fee						
Acoustics and Vibration Metrology						
1	Measurement Microphone type LS1P by the reciprocity technique (Pressure sensitivity level)	20 Hz to 10 kHz	0.040 dB to 0.070 dB	10,630/piece		14010 - 11101
2	Measurement Microphone type LS2P by the reciprocity technique (Pressure sensitivity level)	20 Hz to 20 kHz	0.040 dB to 0.10 dB	10,630/piece		14010 - 11102
3	Measurement Microphone by the insert voltage technique (pressure sensitivity level)	250 Hz and 1 kHz	0.10 dB	5,130/piece		14010 - 11103
4	Measurement Microphone by the comparison method (free-field sensitivity level)	31.5 Hz to 16 kHz 84 dB	0.30 dB to 0.40 dB	7,880/piece		14010 - 11201
5	Measurement Microphone type WS2 by the insert voltage technique (microphone sensitivity) and by The electrostatic actuator (frequency response)	20 Hz to 20 kHz	Sensitivity : 0.10 dB Frequency Response : 0.10 to 0.30 dB	7,500/piece		14010 - 11202
6	Pistonphone or Sound Calibrator	74 dB to 124 dB 250 Hz, 1kHz	0.060 dB	4,880 first level 1,000 /next level		14010 - 12101
7	Multifunction Acoustic Calibrator or Multi-frequency Sound Calibrator	74 dB to 124 dB 31.5 Hz to 16 kHz	0.080 dB to 0.140 dB	16,880/piece		14010 - 12201
8	Sound Level Meter	Based on IEC 61672 Part 3	Class 1, 2	10,880/piece		14010 - 13101
9	Sound Level Meter (Free-field sound pressure response level and absolute sensitivity)	31.5 Hz to 16 kHz 84 dB	0.020 dB to 0.40 dB	7,880/piece		14010 - 13201
10	Sound exposure meter or Noise Dose Meter	63 Hz to 8 kHz	Class 1, 2	17,500/piece		14010-13301
11	Pure-tone audiometer with supra-aural earphone	125 Hz - 8 kHz	Type 1, 2, 3 and 4	7,500/piece		14010 - 14101
12	Pure-tone audiometer with circumaural earphone	125 Hz - 8 kHz	Type 1, 2, 3 and 4	7,500/piece		14010 - 14201
13	Octave Band Pass Filter	20 Hz - 20 kHz	Class 1, 2	7,500/piece		14010 - 17101
14	Sound Absorption Coefficients of Materials for low frequency	50 Hz - 1.6 kHz	3.8 %	5,000/piece		14010 - 67001
15	Sound Absorption Coefficients of Materials for high frequency	500 Hz - 6.4 kHz	3.8 %	5,000/piece		14010 - 67002



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16	Sound Transmission Loss of Materials	50 Hz - 6.4 kHz	3.8%	8,750/piece		14010-67003
17	Tuning Fork	500 Hz - 5 kHz	0.8 Hz	3,125/piece		14010-67101
18	Vibration Meter	1 m/s ² to 100 m/s ² 40 Hz to 5 kHz	1.0 %	10,000/piece		14020 - 11101
19	Vibration Calibrator	1 m/s ² to 100 m/s ² 40 Hz to 5 kHz	1.0 %	5,000 first point 1,250/next point		14020 - 12101
20	Accelerometer by Laser Interferometry (charge sensitivity)	10 m/s ² to 200 m/s ² 40 Hz to 800 Hz	0.50 %	13,750/piece		14020 - 13101
		10 m/s ² to 370 m/s ² > 800 Hz to 5 kHz	0.80 %			
21	Accelerometer by comparison to reference transducer (Charge sensitivity)	1 m/s ² to 100 m/s ² 40 Hz to 5 kHz	1.0%	8,750 first point 1,250/next point		14020 - 13102
22	Shock Transducer by Laser interferometry	20 g to 500 g	1.0%	11,250 /piece		14020 - 13201
23	Accelerometer by Laser Interferometry (voltage sensitivity)	10 m/s ² to 200 m/s ² 40 Hz to 800 Hz	0.50 %	13,750/piece		14020-13301
		10 m/s ² to 370 m/s ² > 800 Hz to 5 kHz	0.80 %			
24	Accelerometer by Laser Interferometry (Voltage sensitivity in modulus)	0.3 m/s ² to 10 m/s ² 1 Hz to 160 Hz	1.0%	13,000/piece		14020-13302
25	Accelerometer by Laser Interferometry (Phase shift of Voltage transducer type)	0.3 m/s ² to 10 m/s ² 1 Hz to 160 Hz	1.0 degree	13,000/piece		14020-13303
26	Accelerometer by Laser Interferometry (Voltage sensitivity in modulus with Phase shift)	0.3 m/s ² to 10 m/s ² 1 Hz to 160 Hz	1.0% and 1.0 degree	15,000/piece		14020-13304
27	Accelerometer by comparison to reference transducer (voltage sensitivity)	0.3 m/s ² to 10 m/s ² 1 Hz to 80Hz	1.0%	8,750/piece		14020-13305
28	Accelerometer by comparison to reference transducer (voltage sensitivity)	1 m/s ² to 100 m/s ² 40 Hz to 5 kHz	1.0%	10,000/piece		14020-13306
29	Laser Vibrometer by comparison to reference vibrometer (modulus)	10 m/s ² to 50 m/s ² 40 Hz to 5 kHz	0.50%	50,000/piece		14020-13401
30	Conditioning Amplifier (Charge Amplifier)	20 Hz to 7 kHz	0.10 %	5,380/piece		14020 - 19101



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31	Conditioning Amplifier (Voltage Amplifier)	40 Hz to 5 kHz	0.10 %	6,250/piece		14020 - 19102
32	Conditioning Amplifier (ICP Amplifier)	40 Hz to 5 kHz	0.10%	6,250/piece		14020 - 19103
33	Ultrasound Power Meter (ultrasound power-ultrasound power meter)	0.5 W to 10 W 1 MHz	6.0%	10,000/piece		14030 - 11101
		0.5 W to 4 W 3 MHz	7.0%			
		0.5 W to 2 W 5 MHz	8.0%			
34	Ultrasonic Transducer (ultrasonic transducer and generator)	0.5 W to 10 W 1 MHz	6.0 %	12,500/piece		14030 - 11102
		0.5 W to 4 W 3 MHz	7.0%			
		0.5 W to 2 W 5 MHz	7.0%			
35	Immersion Ultrasonic Transducer (Planar Scanning Method)	1 MHz to 15 MHz 50 kPa to <20 Mpa	14.40 % to 15.30 %	7,500/piece		14030-13101
36	Ultrasound Check Source	10 mW, 100 mW and 1 W 3.5 MHz	6.0 %	10,000/piece		14033-13111
37	Ultrasonic Power(Therapeutic Ultrasound) - Onsite Service	0.5 W to 10 W 1 MHz to 3 MHz	5.0 %	3,000/piece		14030-15101
38	Needle hydrophone (free-field sensitivity - hydrophone)	1 MHz to 15 MHz 50 kPa to <20 Mpa	14.0 % to 15.0 %	24,375/piece		14033-11101
39	Ultrasound transducer for physiotherapy (Planar Scanning Method)	1 MHz , 3 MHz 50 kPa to <20 MPa	17.0 %	7,500/point		14033-63301
40	Adjustment Charge			25 % of the calibration cost of each range		14000 - 10001