



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 LS1P by the reciprocity technique (sensitivity level and phase level) at low frequency	2 Hz to 20 Hz	- Sensitivity level : (0.04 - 0.20) dB - Phase level : (2.0 to 0.4) Degree	22,500/piece		14010 - 11104
3	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
4	Measurement Microphone by the insert voltage technique (pressure sensitivity level)	250 Hz and 1 kHz	0.10 dB	5,130/piece		14010 - 11103
5	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
6	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
7	Measurement Microphone type WS3 by the insert voltage technique (microphone sensitivity) by The electrostatic actuator or coupler comparison (frequency response)	20 Hz to 20 kHz	Sensitivity : 0.10 dB Frequency Response : 0.10 to 0.30 dB	7,500/piece		14010 - 11203
8	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
9	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
10	Sound Level Meter	Based on IEC 61672 Part 3	Class 1, 2	10,880/piece		14010 - 13101
11	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
12	Acoustic Analyzer (based on IEC 61672 : 3)	31.5 Hz to 20 kHz	as specification	22,500/piece		14010-13401
	Additional Function of Band Pass Filter			plus 10,000/piece		



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13	Sound exposure meter or Noise Dose Meter	63 Hz to 8 kHz	Class 1, 2	17,500/piece		14010-13301
14	Pure-tone audiometer with supra-aural earphone	125 Hz - 8 kHz	Type 1, 2, 3 และ 4	7,500/piece		14010 - 14101
15	Pure-tone audiometer with circumaural earphone	125 Hz - 8 kHz	Type 1, 2, 3 และ 4	7,500/piece		14010 - 14201
16	Air-conduction audiometer coupler with insert earphone	125 Hz - 8 kHz	Type 1, 2, 3 และ 4	7,500/piece		14010-14301
17	Octave Band Pass Filter	20 Hz - 20 kHz	Class 1, 2	7,500/piece		14010 - 17101
18	Sound Absorption Coefficients of Materials for low frequency	50 Hz - 1.6 kHz	3.8 %	5,000/piece		14010 - 67001
19	Sound Absorption Coefficients of Materials for high frequency	500 Hz - 6.4 kHz	3.8 %	5,000/piece		14010 - 67002
20	Sound Transmission Loss of Materials	50 Hz - 6.4 kHz	3.8%	8,750/piece		14010-67003
21	Tuning Fork	500 Hz - 5 kHz	0.8 Hz	3,125/piece		14010-67101
22	Qualification sound booth testing	125 Hz - 8 kHz	1 dB	15,000/piece		14010-67201
23	Dental Scaler (Noise Measurement) Based On ISO 22374	20 Hz - 40 kHz	as specification	3,750/piece		14010-67301



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24	Vibration Meter	1 m/s ² to 100 m/s ² 40 Hz to 5 kHz	1.0 %	10,000/piece		14020 - 11101
25	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
26	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 %			
27	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
28	Shock Transducer by Laser interferometry	20 g to 500 g	1.0%	11,250 /piece		14020 - 13201
29	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 %			
30	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
31	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
32	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
33	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
34	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
35	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
36	Conditioning Amplifier (Charge Amplifier)	20 Hz to 7 kHz	0.10 %	5,380/piece		14020 - 19101



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37	Conditioning Amplifier (Voltage Amplifier)	40 Hz to 5 kHz	0.10 %	6,250/piece		14020 - 19102
38	Conditioning Amplifier (ICP Amplifier)	40 Hz to 5 kHz	0.10%	6,250/piece		14020 - 19103
39	Conditioning Amplifier (Factory Testing)	-	According to spcification	10,625/piece		14020 - 19104
40	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%			
41	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%			
41	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
42	Ultrasonic Sonic Monitor	0.5 W to 10 W 1 MHz	14%	5,625/piece		14030-14101
		0.5 W to 4 W 3 MHz				
		0.5 W to 2 W 5 MHz				
43	Ultrasonic Power (Therapeutic Ultrasound) - Onsite Service	0.5 W to 10 W 1 MHz to 3 MHz	5.0%	3,000/piece		14030-15101
44	Ultrasound Check Source	10 mW, 100 mW and 1 W	6.0 %	10,000/piece		14033-13111



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		3.5 MHz				
45	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
46	Ultrasound transducer for physiotherapy (Planar Scanning Method)	1 MHz , 3 MHz 50 kPa to <20 MPa	17.0 %	7,500/point		14033-63301
47	Electrical Safety Test - Based On IEC 60601-1	Acceptance Test for Medical Electrical Equipment and Systems	Mains Voltage: 6 V Equipment Current: 2.5 A Protective Earth Resistance: 0.02 Ohm Insulation Resistance: 11 MOhm Earth Leakage Current: 1.5 uAAC+DC Enclosure Leakage Current: 1.5 uAAC+DC	5,625/piece		14030-67001
48	Adjustment Charge			25 % of the calibration cost of each range		14000 - 10001