



## Price List

Item No.	Description	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
<b>Calibration Fee</b>						
<b>Acoustics and Vibration Metrology</b>						
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	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
6	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
7	Sound Level Meter	Based on IEC 61672 Part 3	Class 1, 2	10,880/piece		14010 - 13101
8	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
9	Sound Absorption Coefficients of Materials for low frequency	50 Hz - 1.6 kHz	3.8 %	5,000/piece		14010 - 67001
10	Sound Absorption Coefficients of Materials for high frequency	500 Hz - 6.4 kHz	3.8 %	5,000/piece		14010 - 67002
11	Sound Transmission Loss of Materials	50 Hz - 6.4 kHz	3.8%	8,750/piece		14010-67003
12	Vibration Meter	1 m/s <sup>2</sup> to 100 m/s <sup>2</sup> 40 Hz to 5 kHz	1.0 %	10,000/piece		14020 - 11101
13	Vibration Calibrator	1 m/s <sup>2</sup> to 100 m/s <sup>2</sup> 40 Hz to 5 kHz	1.0 %	5,000 first point 1,250/next point		14020 - 12101



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14	Accelerometer by Laser Interferometry (charge sensitivity)	10 m/s <sup>2</sup> to 200 m/s <sup>2</sup> 40 Hz to 800 Hz	0.50 %	13,750/piece		14020 - 13101
		10 m/s <sup>2</sup> to 370 m/s <sup>2</sup> > 800 Hz to 5 kHz	0.80 %			
15	Accelerometer by comparison to reference transducer (Charge sensitivity)	1 m/s <sup>2</sup> to 100 m/s <sup>2</sup> 40 Hz to 5 kHz	1.0%	8,750 first point 1,250/next point		14020 - 13102
16	Shock Transducer by Laser interferometry	20 g to 500 g	1.0%	11,250 /piece		14020 - 13201
17	Accelerometer by Laser Interferometry (voltage sensitivity)	10 m/s <sup>2</sup> to 200 m/s <sup>2</sup> 40 Hz to 800 Hz	0.50 %	13,750/piece		14020-13301
		10 m/s <sup>2</sup> to 370 m/s <sup>2</sup> > 800 Hz to 5 kHz	0.80 %			
18	Accelerometer by Laser Interferometry (Voltage sensitivity in modulus)	0.3 m/s <sup>2</sup> to 10 m/s <sup>2</sup> 1 Hz to 160 Hz	1.0%	13,000/piece		14020-13302
19	Accelerometer by Laser Interferometry (Phase shift of Voltage transducer type)	0.3 m/s <sup>2</sup> to 10 m/s <sup>2</sup> 1 Hz to 160 Hz	1.0 degree	13,000/piece		14020-13303
20	Accelerometer by Laser Interferometry (Voltage sensitivity in modulus with Phase shift)	0.3 m/s <sup>2</sup> to 10 m/s <sup>2</sup> 1 Hz to 160 Hz	1.0% and 1.0 degree	15,000/piece		14020-13304
21	Accelerometer by comparison to reference transducer (voltage sensitivity)	0.3 m/s <sup>2</sup> to 10 m/s <sup>2</sup> 1 Hz to 80Hz	1.0%	8,750/piece		14020-13305
22	Accelerometer by comparison to reference transducer (voltage sensitivity)	1 m/s <sup>2</sup> to 100 m/s <sup>2</sup> 40 Hz to 5 kHz	1.0%	10,000/piece		14020-13306
23	Laser Vibrometer by comparison to reference vibrometer (modulus)	10 m/s <sup>2</sup> to 50 m/s <sup>2</sup> 40 Hz to 5 kHz	0.50%	50,000/piece		14020-13401
24	Conditioning Amplifier (Charge Amplifier)	20 Hz to 7 kHz	0.10 %	5,380/piece		14020 - 19101
25	Conditioning Amplifier (Voltage Amplifier)	40 Hz to 5 kHz	0.10 %	6,250/piece		14020 - 19102
26	Conditioning Amplifier (ICP Amplifier)	40 Hz to 5 kHz	0.10%	6,250/piece		14020 - 19103

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Item No.	Description	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
27	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%			
28	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%			
29	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
30	Ultrasound Check Source	10 mW, 100 mW and 1 W 3.5 MHz	6.0 %	10,000/piece		14033-13111
31	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
32	Ultrasound transducer for physiotherapy (Planar Scanning Method)	1 MHz , 3 MHz 50 kPa to <20 MPa	17.0 %	7,500/point		14033-63301
33	Adjustment Charge			25 % of the calibration cost of each range		14000 - 10001