



# METROLOGY LAB CO.,LTD.

3/2 Soi Ramkhamhaeng164 Y ak16 ,Minburi, Minburi, Bangkok 10510

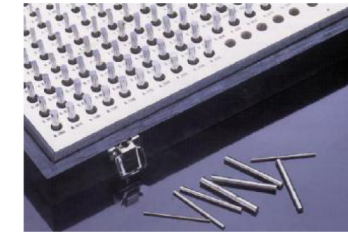
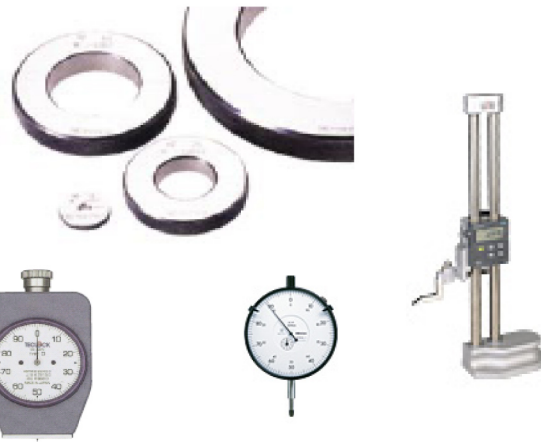
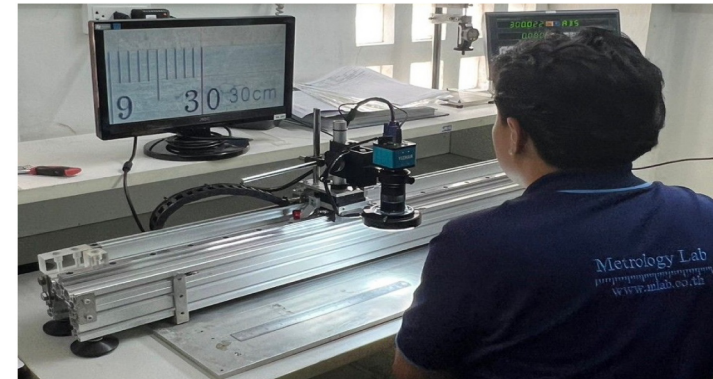
Tel.02-540-7831 Fax.02-540-7836

Web-site : www.mlab.co.th e-mail : metrologylab@yahoo.com



## Dimension Calibration

Dimension (ความยาว / ขนาด / มุม / ความเรียบ)	17025 Accredite	Range
OUTSIDE MICROMETER	✓	0 TO 1000 mm
INSIDE MICROMETER ,TUBULAR INSIDE MICROMETER ,HOLE TEST	✓	5 TO 1000 mm
DEPTH MICROMETER	✓	0 TO 1000 mm
VERNIER CALIPER ,DEPTH VERNIER ,INSIDE VERNIER	✓	0 TO 1000 mm
DIAL GAUGE ,DIAL THICKNESS ,DIAL CALIPER GAUGE	✓	0 TO 100 mm.
DIAL TEST INDICATOR ,PIC TEST ,ULTRASONIC / COATING THICKNESS	✓	0 TO 10 mm.
FEELER GAUGE ,THICKNESS GAUGE ,FILM GAUGE , TEST SIEVE	✓	0.01 TO 5 mm.
HEIGHT GAUGE ,ELECTRONIC COMPARATOR	✓	0 TO 600 mm.
TAPER GAUGE ,SNAP GAUGE ,JIG ,SCALE PLATE ,CHAMFER GAUGE	✓	0 TO 100 mm.
THREAD PLUG GAUGE (GO / NO GO) ALL TYPE	✓	M1.5 TO M100 mm.
THREAD RING GAUGE (GO / NO GO)	✓	M3 TO M100
PIN GAUGE ,PLUG GAUGE ,SETTING ROD ,RING GAUGE ,STANDARD FOIL	✓	0.3 TO 100mm.
DUROMETER ,RUBBER HARDNESS	✓	0 TO 100 Shore A,B,C,D
TAPE SCALE ,STEEL RULER ,PI TAPE ,MANDREL ,DIAMETER TAPE	✓	0 TO 20 m.
LINEAR SCALE ,SCALE LOUPE ,	✓	0 TO 1000mm
BEVEL PROTRACTOR ,ANGEL GAUGE ,RADIUS GAUGE	✓	0° TO 360 °
GAUGE BLOCK (GRADE 0,1,2)	✓	0.5 TO 100 mm.
PROFILE PROJECTOR ,MEASURING MICRO SCOPE ,X – Y AXIS ,CMM	✓	< = 1000 X 1000 X 1000 mm
ROCKWELL HARDNESS TESTER ,VICKER HARDNESS TESTER		HRA ,HRB ,HRC ,HV
SURFACE ROUGHNESS TESTER ,CONTOUR MEASURING		Ra ,Ry ,Rz 0 TO 800 um.







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## Electrical Calibration



Electrical (ไฟฟ้า/ ความถี่)	17025 Accredite	Range
METER ,MEASURING		
Analog Multimeter Cal. all Function ,Range	✓	0 TO 1000 V AC / DC
Digital Multimeter Cal. all Function ,Range	✓	0 TO 50 A AC / DC
CLAMP METER True RMS Cal. all Function ,Range	✓	0 TO 1000 A AC / DC (Clamp)
POWER METER ,WATT METER ,POWER TRANSMITTER	✓	0 TO 50 KW (1 PHASE ,3 PHASE) Power
RESISTANCE METER	✓	0 TO 10 GOhm
INSULATION ,MEGAOHM ,WRIST STRAP ,SURFACE RESISTANCE	✓	0 TO 10 GOhm
MILLIOHM HI TESTER ,EARTH METER	✓	0.01 Ohm TO 100 Ohm
LEAK CURRENT TESTER AC / DC	✓	0.1uA TO 100mA
HIGH VOLTAGE TESTER ,WITHSTANDING TESTER AC / DC	✓	0 TO 20 KV
LCR METER ,CAPACITANCE METER ,INDUCTANCE METER	✓	0 TO 10 Gohm ,50pF TO 10uF ,1 uH TO 100 mH
STOP WATCH ,TIMER ,COUNTER	✓	0 TO 100Hr.
OSCILLO SCOPE ,WAVE COMPARATOR ,FREQUENCY COUNTER	✓	0 TO 20 MHz ,0 TO 0.02 uS ,0 to 100 Vp-p
TACHO METER ,SPEED METER ,STROBO SCOPE ,CENTIFUGE ,SHAKER	✓	0 TO 100000 RPM ,0 TO 1000 m/min
TEMPERATURE CONTROLLER ,RECORDER ,TEMP. DATA LOGGER	✓	T/C : J K R S T E ,RTD ,THERMISTOR
SOURCE ,CALIBRATOR		
VOLTAGE SOURCE AC / DC ,POWER SUPPLY ,WITHSTANDING TESTER	✓	0 TO 20 kV
CURRENT SOURCE AC / DC ,ELECTRONIC LOAD	✓	0 TO 50 A
RESISTANCE SOURCE ,DECADE RESISTANCE	✓	0 TO 1 GOhm
FUNCTION GENERATOR ,SIGNAL GENERATOR ,PLUSE GENERATOR	✓	0 TO 15 MHz ,0 TO 0.7 nS ,0 to 100 Vp-p
TEMPERATURE SIMULATOR ,PROCESS CALIBRATOR	✓	T/C : J ,K ,R ,S ,T ,E / RTD /THERMISTOR







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## Temperature / Humidity Calibration



อุณหภูมิ / ความชื้น (Temperature / Humidity )	Range	Range
TEMPERATURE GAUGE , DIAL THERMOMETER ,LIG THERMOMETER	✓	-20°C TO 400°C
DIGITAL THERMOMETER WITH PROBE (RTD , TC ,THERMISTOR)	✓	-20°C TO 1200°C
TEMP. CONTROLLER WITH PROBE (RTD , TC ,THERMISTOR)	✓	-20°C TO 1200°C
TEMP. ELEMENT (RTD , TC ,THERMISTOR)	✓	-20°C TO 1200°C
TEMP. TRANSMITTER (RTD , TC ,THERMISTOR)	✓	-20°C TO 1200°C
TEMP. SWITCH (RTD , TC ,THERMISTOR)	✓	-20°C TO 1200°C
TEMPERATURE GAUGE , DIAL THERMOMETER	✓	-20°C TO 1200°C
LIQUID BATH ,WATER BATH ,OIL BATH	✓	-20°C TO 200°C
TEMP. ENCLOSURES ,OVEN ,TEMP. CHAMBER ,INCUBATOR ,FREEZER	✓	-20°C TO 200°C
FURNACE	✓	100°C TO 1200°C
AUTOCLAVE	✓	100°C TO 140°C
DRY BLOCK CALIBRATOR ,DRY WELL TEMPERATURE SOURCE	✓	-20°C TO 1200°C
INFRARED THERMOMETER ,FLIR / FLIR THERMOMETER	✓	35°C TO 350°C
EXTENSION WIRE THERMO COUPLE (ALL TYPE)	✓	20°C TO 30°C
THERMO - HYGRO METER ,TEMP./ HUMIDITY METER	✓	-20°C TO 100°C , 30%RH. TO 90%RH.
TEMP./ HUMIDITY CHAMBER	✓	30%RH. TO 90%RH.







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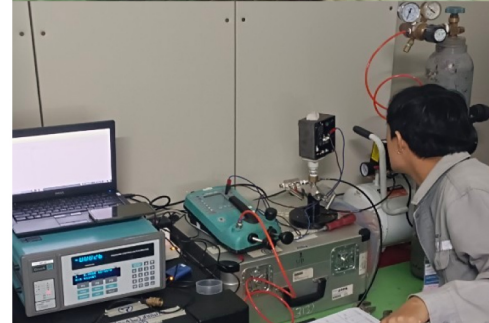
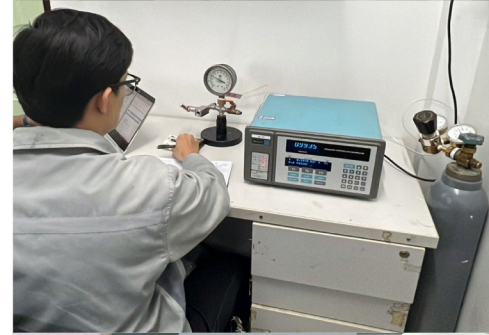
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## Pressure / Vacuum Calibration

Pressure & Vacuum	17025 Accredite	Range
VACUUM GAUGE	✓	VACUUM (PNEUMETIC) -1 TO 0 BAR  PRESSURE (PNEUMETIC) 0 TO 20 BAR  LOW PRESSURE (PNEUMETIC) 0 TO 1 BAR  PRESSURE (HYDRULIC) 0 TO 400 BAR
VACUUM TRANSMITTER	✓	
VACUUM SWITCH	✓	
PRESSURE GAUGE	✓	
PRESSURE TRANSMITTER	✓	
PRESSURE SWITCH	✓	
DIFF. GAUGE / LEVEL GAUGE	✓	
DIFF. TRANSMITTER / LEVEL TRANSMITTER	✓	
DIFF. SWITCH / LEVEL SWITCH	✓	
DIAPHAM PRESSURE GAUGE	✓	
MANO METER	✓	
SAFETY VALVE ,CONTROL VALVE	✓	
LEAK PRESSURE GAUGE , BAROMETER	✓	







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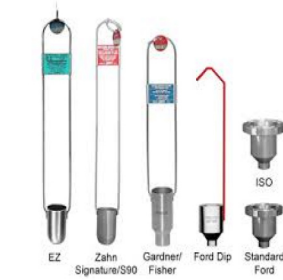


## Volume / Chemical / Lab. Test / Special

Glassware & Chemical	17025 Accredite	Range
VOLUMETRIC PIPET ,FLASK ,GRADUATED CYLINDER	✓	0 TO 5000 ml.
MEASURING PIPET ,BURET ,BEAKER	✓	0 TO 5000 ml.
MICRO PIPET (FIX ,VARIABLE ,MULTI CHANNEL)	✓	0 TO 500 ml.
AUTO PIPET ,AUTOMATIC BURET	✓	0 TO 500 ml.
DISPENSER	✓	0 TO 5000 ml.
pH METER	✓	0 TO 14 pH
CONDUCTIVITY METER	✓	5 TO 12880 uS/cm
ORP METER	✓	220 , 468 mV
TDS METER	✓	1500 ppm
SALINITY METER	✓	5 TO 45 ppt
DISSOLVED OXYGEN METER	✓	0 TO 20.8% OXYGEN



Laboratory Testing & Validation	17025 Accredite	Range
UV-VIS SPECTRO PHOTOMETER (PHOTOMETIC / WAVELENGTH)	✓	380 to 830 nm. / 0 to 1 Abs
CENTRIFUGE	✓	6 to 100000 RPM
VISCOSITY CUP ,FORD-ZAHN-RIGOSHA-DIN-FRIKMAR-IWATA	✓	7.4 to 59080 cSt
VISCOSITYMETER ,BROOKFIELD VISCOSITY	✓	2.083 to 52630 cP
KREBS STORMER VISCOSITYMETER	✓	27 to 120.6 KU
PYCNOMETER,W/G CUP	✓	1 to 1000 ml.
APPLICATOR	✓	1 to 2000 um.
GRIND GAUGE ,FINENESS GRIND GAUGE	✓	1 to 2000 um.
HARD DRYING TIME ,DRYING TIME RECORDER	✓	1 min to 24 Hour
SCRATCH TESTER,SHEAR TESTER		STROKE ,SPEED ,LOAD
IMPACT TESTER ,SHOCK TESTER,DROP HAMMER TESTER		50 JOULE to 800 JOULE AT 3.8 m/s
CONICAL MANDREL ,BEND TESTER		DIA. 3 mm to 38 mm
MELT FLOW INDEX TESTER		TEMPERATURE ,TIMER , WEIGHT LOAD
QUV WEATHERING TESTER		35 °C to 85 °C
MINOLTA CHROMA METER , SPECTROPHOTOMETER		L a*b* illuminance and colour
ANEMOMETER	✓	2.5 to 15 m/s
MOISTURE BALANCE		0 to 200 g ,0 %R.H. to 100%R.H.
GLOSS METER	✓	0 GU to 100 GU at 20°, 60°, 85°
ABRASER TESTER		STROKE ,SPEED,LOAD



เครื่องมือพิเศษ (Special Instrument)	17025 Accredite	Range
LUX METER		0 TO 20000 LUX
VIBRATION METER	✓	Acc:0 to 50m/s <sup>2</sup> ,Vel:0 to 50mm/s ,Disp: 0 to 100um
SOUND LEVEL METER	✓	94 , 114 dB at 1kHz
WOOD MOISTURE METER		8 % TO 90 %
LIQUID FLOW METER		1 L/min TO 300L/min
ROLLER COUNTER ( ล้อวัดความยาวเมตร, ล้อวัดความยาวหลา )	✓	0.001 m/plus TO 1 m/plus







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## Mass / Force / Torque Calibration

MASS / FORCE / TORQUE (น้ำหนัก / แรง / แรงบิด)	17025 Accredite	Range
ELECTRONIC BALANCE ,PLATFORM SCALE , CRANE SCALE	✓	1mg TO 1000 kg
WEIGHT BALANCE ,BALANCE SCALE ,SPRING BALANCE	✓	1mg TO 1000 kg
ANALYTICAL BALANCE ,PRECISION BALANCE (UP TO 0.00001g)	✓	1mg TO 300 g
DUROMETER ,RUBBER HARDNESS GAUGE	✓	0 TO 100 DURO A,B,C,D,E,DO (FORCE)
DIAL TENSION GAUGE ,WIRE TENSION METER	✓	1mg TO 50 kg
PUSH-PULL METER ,FORCE GAUGE ,COMPRESSION METER	✓	1mg TO 50 kg
TENSION / COMPRESSION TESTER , UNIVERSAL TESTING MACHINE	✓	0 TO 5000 kg ,0 TO 50 kN
STEEL WEIGHT (BRASS , STEEL CLASS F2,M1,M2)		1mg TO 20 kg
WEIGHT (STAINLESS STEEL CLASS F1)		1mg TO 20 kg
TORQUE WRENCH ,TORQUE GAUGE ,TORQUE GAUGE	✓	0 TO 1000 N.m
TORQUE SCREW DRIVER	✓	0 TO 10 N.m
DIGITAL TORQUE METER	✓	0 TO 250 N.m
MECHNICAL TORQUE METER ,CAP TORQUE TESTER	✓	0 TO 250 N.m

