



Scopes of Calibration and Accreditation

Field of Calibration	Properties of Measured / Equipment Under Calibration	Capability Range	Calibration Methods	ISO/IEC 17025 Accredited by ONSC-TISI (Thailand)		ISO/IEC 17025 Accredited by ANAB (USA)	
				LAB	ON-SITE	LAB	ON-SITE
Mass	Weight Class OIML F1, F2, M1, M2, M3	Class F1: 1g - 2kg Class F2: 5kg - 20kg Class F2: 1mg - 20kg	OIML R-111-1	-	-	-	-
	- Stainless Steel Weights			Yes	-	Yes	-
	- Brass Weights			Yes	-	Yes	-
	- Aluminum Weights			Yes	-	Yes	-
	- Cast Iron Weights			Yes	-	Yes	-
	Weight Not OIML	1mg - 30kg	Comparison method	-	-	Yes	-
	- Stainless Steel Weights			-	-	Yes	-
	- Brass Weights			-	-	Yes	-
	- Aluminum Weights			-	-	Yes	-
	- Cast Iron Weights			-	-	Yes	-
	Electronic Balances	0 - 300 kg (ONSC accredited 0-30 kg) (ANAB accredited 0-300 kg)	UKAS LAB 14 : 2001	Yes	Yes	Yes	Yes
	- Electronic Balance			Yes	Yes	Yes	Yes
	- Digital Scale			Yes	Yes	Yes	Yes
	- Digital Balance			Yes	Yes	Yes	Yes
	- Counting Scale			Yes	Yes	Yes	Yes
	Spring Balances	0 - 300 kg (ONSC accredited 0-30 kg) (ANAB accredited 0-300 kg)	UKAS LAB 14 : 2001	Yes	Yes	Yes	Yes
	- Spring Plate Balances			Yes	Yes	Yes	Yes
	- Spring Balances			Yes	Yes	Yes	Yes
	- Trip Balances (2 Pan Balances)			Yes	Yes	Yes	Yes
	- Suspension Spring Balances			Yes	Yes	Yes	Yes
	- Beam Balances			Yes	Yes	Yes	Yes
						Applied accreditation to 300 kg	
Torque	Torque Tools (Setting / Indicating Types)	0 - 1,000 N.m > 1,000 - 1,500 N.m (ONSC accredited 0-1,000 Nm) (ANAB accredited 0-1,000 Nm)	ISO 6789 : 2003	Yes	-	Yes	Yes
	- Torque Screw Driver			Yes	-	Yes	Yes
	- Torque Driver			Yes	-	Yes	Yes
	- Torque Wrench			Yes	-	Yes	Yes
	- Torque Gauge			Yes	-	Yes	Yes
	- Digital Torque Screw Driver			Yes	-	Yes	Yes
	- Digital Torque Driver			Yes	-	Yes	Yes
	- Digital Torque Wrench			Yes	-	Yes	Yes
	Torque Gauge	Up - 150 cN.m	Arm and Weight Set	-	-	Yes	Yes
	- Digital Torque Gauge			-	-	Yes	Yes
	- Analog Torque Gauge			-	-	Yes	Yes
	Torque Meters	Up - 1000kgf.cm	Arm and Weight Set	-	-	Yes	Yes
	- Digital Torque Tester			-	-	Yes	Yes
	- Digital Torque Meter			-	-	Yes	Yes
	- Digital Torque Analyzer			-	-	Yes	Yes
	- Mechanical Torque Tester			-	-	Yes	Yes
	- Torque Transducer with Indicator			-	-	Yes	Yes
	AC Servo Nutrunner	Up - 200kgf.cm	Arm and Weight Set (Cal. Static Mode)	-	-	Yes	Yes
	- Rotary Torque			-	-	Yes	Yes
Force	Push-Pull Scales	0 - 1000 kgf (ONSC accredited 0-30 kgf) (ANAB accredited 0-100 kgf)	Standard Weights and Force Transducer	Yes	-	Yes	Yes
	- Push-Pull Scale			Yes	-	Yes	Yes
	- Push-Pull Gauge						
	Force Gauges	0 - 1000 kgf (ONSC accredited 0-30 kgf) (ANAB accredited 0-100 kgf)	Standard Weights and Force Transducer	Yes	-	Yes	Yes
	- Digital Force Gauge			Yes	-	Yes	Yes
	- Digital Pull Tester			Yes	-	Yes	Yes
	- Force Gauges (With load cell sensor)			Yes	-	Yes	Yes
	- Load Cell with Indicator			Yes	-	Yes	Yes
	Tension Gauges	0 - 100 kgf (ONSC accredited 0-30 kgf) (ANAB accredited 0-100 kgf)	Standard Weights	Yes	-	Yes	Yes
	- Tension Gauges			Yes	-	Yes	Yes
	- Digital Tension Gauges						
	Dial Tension Gauges	0 - 1000 gf	Standard Weights	Yes	-	Yes	Yes
	- Dial Tension Gauges			Yes	-	Yes	Yes
	- Digital Dial Tension Gauges						
	Wire Tension Meters	0 - 30 kgf	Standard Weights	-	-	Yes	Yes
	- Tension Meters			-	-	Yes	Yes
	- Wire Tension Meters						
	Tensile Testing Machine	0 - 50 kN	Comparison measurement with Force Standard	-	-	Yes	Yes
	- Tensile Testing M/C			-	-	Yes	Yes
	- Universal Tensile Testing M/C			-	-	Yes	Yes
	- Auto Graph			-	-	Yes	Yes
	- Automatic Spring Tester			-	-	Yes	Yes
	- Tensile Tester			-	-	Yes	Yes
	- Compression Tester			-	-	Yes	Yes
	Screen Tension Gauges	Up to 100 N/cm	Direct measurement based on DIN E 16611	-	-	Yes	-
	- Screen Tension Gauges			-	-	Yes	-
	- Belt Tension Gauges						
Pressure	Pressure / Vacuum Gauges (All Classes)	-14 to 10,000 psi or equivalent units	Pressure Calibrator, DKD-R 6-1	-	-	Yes	Yes
	- Bourdon Tube Pressure Gauge			-	-	Yes	Yes
	- Digital Pressure Gauge			-	-	Yes	Yes
	- Analog Type Compound Gauge			-	-	Yes	Yes
	- Digital Type Compound Gauge			-	-	Yes	Yes
	- Digital Test Gauge			-	-	Yes	Yes
	- Differential Pressure Gauge			-	-	Yes	Yes
	- Analog Type Vacuum Gauge			-	-	Yes	Yes
	- Digital Type Vacuum Gauge			-	-	Yes	Yes
	- Manometer			-	-	Yes	Yes
	- Digital Manometer			-	-	Yes	Yes
	- Pressure Calibrator			-	-	Yes	Yes
	- Digital Test Gauge			-	-	Yes	Yes
	- Test Gauge			-	-	Yes	Yes
	- Standard Test Gauge			-	-	Yes	Yes
	- Pressure Module			-	-	Yes	Yes
	- Standard Pressure Module			-	-	Yes	Yes
	Pirani Gauge (Absolute Pressure Gauge)	-14 to 10,000 psi or equivalent units	Pressure Calibrator, DKD-R 6-1	-	-	Yes	Yes
	- Absolute Pressure Gauge			-	-	Yes	Yes
	- Pirani Gauge						
Pressure	Pressure Transmitter / Pressure Transducer	-14 to 10,000 psi or equivalent units	BSEN 837-1 : 1998	-	-	Yes	Yes
	- Mechanical Type			-	-	Yes	Yes
	- Electronic Type			-	-	Yes	Yes
	Pressure Sensor / Pressure Switch	-14 to 10,000 psi	BSEN 837-1 : 1998				

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				LAB	ON-SITE	LAB	ON-SITE
	- Mechanical Type - Electronic Type	or equivalent units		-	-	Yes	Yes
				-	-	Yes	Yes
Hardness	Durometers	All Types	JIS K 6253, ASTM D 2240, ISO 868, and Maker test methods				
	- Durometer			-	-	Yes	Yes
	- Digital Durometer			-	-	Yes	Yes
	- Digimatic Durometer			-	-	Yes	Yes
	- Shore Durometer			-	-	Yes	Yes
	- Rubber Hardness Tester			-	-	Yes	Yes
	- Duro Hardness Tester			-	-	Yes	Yes
	Micro Vicker Hardness Testing Machines (Site calibration) - Indirect Verification	HMV 700	Standard Hardness Blocks	-	-	Yes	Yes
	Rockwell Hardness Testing Machines (Site calibration) - Indirect Verification	HRC 30, 45, 60 HRB 30, 60, 90	Standard Hardness Blocks	-	-	Yes	Yes
Flow	Air Velocity	Up to 35 m/s	Wind Tunnel Standard Anemometer				
	- Air Velocity Meter			-	-	Yes	Yes
	- Annemometer			-	-	Yes	Yes
	Mass Flow Rate (Gas)	Up to 500 L/min	Flow Calibrator				
	- Mass Flow Rate Meter			-	-	Yes	Yes
				-	-	Yes	Yes
	Volumetric Flow Rate (Gas)	Up to 592 g/min	Flow Calibrator				
	- Mass Flow Rate Meter			-	-	Yes	Yes
				-	-	Yes	Yes

Yes

= Accredited ISO/IEC 17025

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= Not accredited scopes of ISO/IEC 17025