

## CALIBRATION SCOPE (ขอบข่ายการสอบเทียบ)

Parameter	Description	Range
	<p style="background-color: #F08080; margin: 0;"><b>Liquid Flow Meter</b></p> <p><i>LAB : Gravimetric Method, Water Media</i></p> <ul style="list-style-type: none"> <li>Coriolis Flow Meter ( Mass Flowmeter )</li> <li>Ultrasonic Flow Meter</li> <li>Magnetic Flow Meter</li> <li>Vortex Flow Meter</li> <li>Positive Displacement Flow Meter</li> <li>Turbine Flow Meter</li> <li>Water Meter</li> <li>Variable Area Flow Meter</li> <li>Rota Flow Meter</li> <li>Paddle Wheel Flow Meter</li> </ul> <p><i>Onsite - Wet Method</i></p> <ul style="list-style-type: none"> <li>Clam on by Ultrasonic Flow Meter</li> <li>Series Master Meter</li> <li>Open Channel Flow Meter</li> <li>Measuring Holding Time</li> </ul> <p><i>Onsite - Dry Method</i></p> <p><i>Simulate: Electronic Function</i></p>	<p>Pipe Size &lt; 6 inch, DN151</p> <p>Flow rate up to 140 t/h</p> <p>Flow rate up to 140 m<sup>3</sup>/h</p> <p>Mass up to 2500 kg</p> <p>Volume up to 4500 L</p> <p>Pipe Size 0.5 to 200 inch</p> <p>Converter / Display</p>
	<p style="background-color: #F08080; margin: 0;"><b>Air / Gas Flow Meter</b></p> <ul style="list-style-type: none"> <li>Flow Calibrator</li> <li>Mass Flow Meter</li> <li>Turbine Flow Meter</li> <li>Variable Area Flow Meter</li> <li>Rota Flow Meter</li> <li>Wet Gas Meter</li> <li>Dry Gas Meter</li> <li>Air Leak Tester</li> </ul>	<p>0 to 280 SLM</p>
	<p style="background-color: #F08080; margin: 0;"><b>Air Velocity</b></p> <ul style="list-style-type: none"> <li>Wind Vane Anemometer</li> <li>Hot Wire Anemometer</li> <li>Pitot Static Tube Anemometer</li> <li>Sonic Probe Anemometer (Ultrasonic)</li> <li>Cup Anemometer</li> <li>Thermal Mass Flow Meter</li> <li>Air Flow Hood</li> </ul>	<p>0 to 45 m/s</p> <p>0 to 1500 Nm<sup>3</sup>/h</p>
	<p style="background-color: #F08080; margin: 0;"><b>Barometer</b></p> <ul style="list-style-type: none"> <li>Digital Barometer</li> <li>Analog Barometer</li> <li>Barograph</li> </ul>	<p>745 mbar to 1150 mbar</p>
	<p style="background-color: #F08080; margin: 0;"><b>Pressure / Vacuum</b></p> <ul style="list-style-type: none"> <li>Differential Pressure Transmitter</li> <li>Level Transmitter</li> <li>Pressure Transmitter</li> <li>Flow Transmitter</li> <li>Differential Pressure Indicator</li> <li>Pressure Indicator</li> <li>Pressure Gauge</li> <li>Pressure Switch</li> <li>Safety Valve</li> </ul>	<p>- 0.95 bar to 70 bar Medium : Air, N<sub>2</sub></p> <p>&gt;70 bar to 700 bar Medium : Oil, Water</p>
	<p style="background-color: #F08080; margin: 0;"><b>Balance</b></p> <ul style="list-style-type: none"> <li>Electronic Balance</li> <li>Mechanic Balance</li> <li>Spring Balance</li> <li>Plate Form Scale</li> </ul>	<p>1 mg to 2 ton</p>
	<p style="background-color: #F08080; margin: 0;"><b>Mass</b></p> <ul style="list-style-type: none"> <li>CLASS M1</li> </ul>	<p>5 kg , 10 kg , 20 kg</p>
	<p style="background-color: #F08080; margin: 0;"><b>Volumetric</b></p> <ul style="list-style-type: none"> <li>Beaker / Cylinder</li> <li>Volumetric Flask</li> <li>Volumetric Pipet / Measuring Pipet</li> <li>Buret / Digital Buret / Dispenser</li> <li>Pycnometer</li> <li>Micro Syring</li> </ul>	<p>1 ml to 20l</p>
	<p style="background-color: #F08080; margin: 0;"><b>Dimension</b></p> <ul style="list-style-type: none"> <li>Vernier Caliper</li> <li>Micrometer</li> <li>Thickness Gauge</li> </ul>	<p>up to 300 mm</p>

## CALIBRATION SCOPE (ขอบข่ายการสอบเทียบ)

Parameter	Description	Range
	<b style="background-color: #e67e7e; color: white;">Temp &amp; Humidity</b> Thermo-hygrometer Thermo-hygrograph Temperature & Humidity Data Logger Wall Thermometer Heat Stress Meter	-40 to 60 °C 11.3 to 90 %RH
	<b style="background-color: #e67e7e; color: white;">Temperature Source</b> Dry Block Calibrator Temperature Bath Calibrator	-40 to 1200 °C
	<b style="background-color: #e67e7e; color: white;">Temperature</b> RTD Sensor Thermocouple Sensor (TC) Temperature Controller Temperature Controller with Sensor Temperature Indicator Temperature Indicator with Sensor Temperature Recorder Temperature Recorder with Sensor Temperature Transmitter Temperature Transmitter with Sensor Digital Thermometer Digital Thermometer with Sensor Temperature Gauge Liquid in Glass Thermometer Industrial Glass Thermometer Infrared Thermometer	-40 to 1200 °C
	<b style="background-color: #e67e7e; color: white;">Temperature Enclosure</b> Incubator / Hot Air Oven Water Bath / Liquid Bath Autoclave Freezer / Refrigerator Cold Room Furnace Temperature & Humidity Chamber	-40 to 200 °C  up to 1100 °C 10 to 60 °C 20 to 85% RH
	<b style="background-color: #e67e7e; color: white;">Electrical</b> Control Valve Controller Indicator Recorder Transmitter Counter Stop Watch / Timer Stoboscope Photo & Contact Tachometer Centrifuge	Voltage / Current Frequency / Pulse
	<b style="background-color: #e67e7e; color: white;">Moisture</b> Moisture Analyzer Moisture Balance Water Activity Meter	Mass & Temperature 0 to 100 %MC 0 to 1 Aw
	<b style="background-color: #e67e7e; color: white;">Analysis</b> pH Meter pH Transmitter Conductivity Meter Conductivity Transmitter TDS Meter (Total Dissolved Solids) Lactometer Hydrometer  Hand Refractometer Salinometer / Salt Meter	STD Buffer: 1.68 pH to 10 pH Simulate : 0 to 14 pH STD Buffer: 10 µS/cm to 111.8 mS/cm Simulate : 0 to 200 mS/cm 55.9, 40.0, 2.50, 0.7065, 0.042 PPT (1.02 - 1.04) SG Density (500 to 2000) kg/m <sup>3</sup> Specific Gravity (0.50 to 2.0) SG (0 to 70) °Baume (-1 to 101) API (0 to 100) %Vol (0 - 70) % Brix (0 - 26) % Salt
	<b style="background-color: #e67e7e; color: white;">Gas Analyzer</b> Oxygen Analyzer Methen Analyzer Dissolved Oxygen Meter	1%O <sub>2</sub> , 21%O <sub>2</sub> 40%CH <sub>4</sub> , 80%CH <sub>4</sub> 0 mg/l, 6 mg/l to 13 mg/l