

Laboratory

Endress+Hauser (India) Pvt. Ltd., A-4, Acorn Warehouse and Logistics Park, Vil. Anjur, Thane Nashik Highway, Ta. Bhiwandi, Dist. Thane, Maharashtra

Accreditation Standard ISO/IEC 17025: 2017

Certificate Number

CC-2872

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Validity

24.06.2019 o 25.10.2020

Last Amended on --

	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
<b><u>MECHANICAL CALIBRATION</u></b>				
<b>I.</b>	<b>PRESSURE INDICATING DEVICES</b>			
<b>1.</b>	Pressure -Pneumatic Pressure Gauge/ Indicator, Transmitters Switches, Differential Pressure Instrument <sup>#</sup> (Digital/Analogue)	35 mbar to 350mbar 0 to 2 bar 0 to 14 bar	0.11 mbar 0.0007 bar 0.0035 bar	Using Process Calibrator with Pressure Module By Direct/ Comparison Method As per DKD-R 6-1
<b>2.</b>	Pressure -Hydraulic Pressure Gauge/ Indicator, Transmitter Switches, Differential Pressure Instrument, Industrial Pressure Gauges <sup>#</sup> (Digital/Analogue)	10 bar to 100 bar 20 bar to 200 bar	0.05 bar 0.07 bar	Using Process Calibrator with Pressure Module By Direct/ Comparison Method As per DKD-R 6-1
<b>3.</b>	Absolute-Pressure Pressure Gauge/ Indicator, Transmitter Switches, Differential Pressure Instrument <sup>#</sup> (Digital/Analogue)	0 to 20 bar Abs.	0.01 bar	Using Process Calibrator with Pressure Module By Direct/ Comparison Method As per DKD-R 6-1
<b>4.</b>	Negative-Pressure Pressure Gauge/ Indicator, Transmitter Switches, Differential Pressure Instrument <sup>#</sup> (Digital/Analogue)	(-) 0.93 bar to 0	0.0007 bar	Using Process Calibrator with Pressure Module By Direct/ Comparison Method As per DKD-R 6-1

**Shally Sharma**  
Convenor

**Battal Singh**  
Program Manager

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<b><u>THERMAL CALIBRATION</u></b>				
I.	<b>TEMPERATURE</b>			
1.	RTD's/ Thermocouples with Indicator/ Temperature Transmitter <sup>#</sup>	(-) 25 °C to 150 °C	0.06 °C	Using PRT, 6 ½ Digit DMM, and Dry well By Comparison Method

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	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
<b><u>FLUID FLOW CALIBRATION</u></b>				
1.	Totalized Mass <sup>#</sup>	20 kg to 2000 kg	0.05 % rdg.	Using Coriolis Mass Flow Meter By Comparison Method
2.	Totalized Volume <sup>#</sup>	20 L to 2000 L	0.06 % rdg.	Using Coriolis Mass Flow Meter By Comparison Method
3.	Mass Flowrate <sup>#</sup>	300 kg/h to 60000 kg/h	0.12 % rdg.	Using Coriolis Mass Flow Meter By Comparison Method
4.	Volume Flowrate <sup>#</sup>	300 L/h to 60000 L/h	0.12 % rdg.	Using Coriolis Mass Flow Meter By Comparison Method

\* Measurement Capability is expressed as an uncertainty ( $\pm$ ) at a confidence probability of 95%

# The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.

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Convenor

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