



Certificate of calibration

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Customer ; DIMENSION CALIBRATION CENTER CO., LTD.
33/5-6 MOO 4 SUKPRAYOON ROAD , TAMBON DONHUAROH ,
AMPHUR MUANG , CHONBURI THAILAND 20000

Instrument ; Vernier height gauge

Model ; 1234

Range ; 0 to 200 mm.

Resolution ; 0.01 mm.

Serial no. ; 1234

Identification no. ; N/A

Reference no. ; S555-1234

Date of received ; September 12, 2012

Date of calibration ; September 13, 2012

Date of Issued ; September 13, 2012

Mr.Kriarerk kerdsoa
Technician

Mr.Chatchapol Jirojjaturonn
Laboratory manager

The calibration cover by this certificate have been performed in accordance with the requirement of ISO/IEC 17025: 2005.

The reported uncertainty is based on standard uncertainty multiplied by coverage factor $k = 2$ providing of confidence approximately 95%.

This calibration certificate may not be reproduced other than in full except with the permission of Director of Dimension Calibration Center Co.,Ltd.



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Reference standard instrument and traceability

Digital height master Serial no. 230107.

Certificate no.

DF-0014-11

Date of calibration

April 18, 2011

Due date

April 17, 2013

Traceable to "National Institute of Metrology (Thailand) through certificate no. DF-0014-11.

Gauge block set grade 0 serial no.0203649.

Certificate no.

CC554-04-0102

Date of calibration

April 27, 2011

Due date

April 26, 2014

Traceable to "National Institute of Metrology (Thailand)" through certificate no. DE-0002-10.

Measurement method

Direct measurement to digital height master and gauge block according to work instruction WI5-03-31.

Environment conditions

The measurement was carried out within ambient temperature of $(20 \pm 1)^\circ\text{C}$ and relative humidity of $(55 \pm 10)\%$ RH.

Uncertainty of measurement

The uncertainty state is the expanded uncertainty which obtained by multiplying the standard uncertainty by coverage factor $k=2$. It has been determined in accordance with EA publication EA-4/02 "Expression of the Uncertainty of Measurement in Calibrations" and "Guide to the Expression of Uncertainty in Measurement (GUM)". The values of assigned presents within the range of values with probability of 95%.

Measurement data

unit: mm

Nominal	Deviation	$U_{95\%}$
5.10	0.000	0.026
7.70	0.000	
10.30	0.000	
12.90	0.000	
15.00	0.000	
20.00	-0.002	
50.00	-0.002	
100.00	-0.002	
150.00	-0.003	
200.00	-0.003	

Parallel between scriber and reference surace ; 0.002 mm

Flatness of height gauge base ; 0.002 mm

End certificate