Inventory Number	05-0003
Report Number	BAM-DIM-18069
Order Number	N/A
Calibration Date	April 16, 2018
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BOMBARDIER

LABORATORY OF METROLOGY

Equipment Information

Equipment	Caliper (Digital)			
Model	500-195-20	**Resolution**	0,0005	in
Serial Number	13260165	**Scope**	4	in
Manufacturer	MITUTOYO	**Measuring Range**	0-4	in
		Uncertainty	**See page 2**	
Responsible	Hugo Espinoza			
Area / Location	PU1			

Calibration Data

Max. Temperature	19,90 ºC	**Procedure**	***In process***
Min. Temperature	20,20 ºC	**Method**	Direct (Comparison)
RH	43,20 %	**Traceability**	National Standards

Standards

Description	Due Date	Manufacturer	Serial	BAM ID	Uncertainty
Gauge Block Set	September 13, 2017	Mitutoyo	1704864	L85-3291	See down
Gauge Block (0.1005 in)			170031		1,14 µin
Gauge Block (0.2 in)			170068		1,14 µin
Gauge Block (0.25 in)			170064		1,14 µin
Gauge Block (0.5 in)			170061		1,14 µin
Gauge Block (1 in)			160044		1,18 µin
Gauge Block (2 in)			170068		1,30 µin
Gauge Block (4 in)			170068		1,42 µin

Measurements

Reference Value	Positions		
in	1	2	3
0,1005	0,0990	0,0990	0,0990
0,2000	0,1980	0,1985	0,1985
0,2500	0,2480	0,2490	0,2485
0,5000	0,4980	0,4985	0,4985
1,0000	0,9980	0,9995	1,0000
2,0000	2,0001	1,9980	2,0005
4,0000	4,0010	4,0015	4,0015

Measurement Result	Redeem to page 2
Uncertainty	Redeem to page 2

Realized by Daniel Castillo **Approved by** Eloy Ornelas

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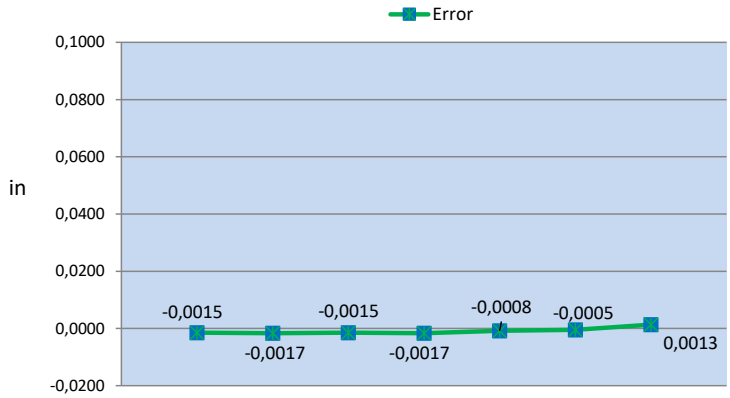
Results

	Reference Value	Average	Error	Uncertainty
	in	in	in	µin
1	0,101	0,099	-0,0015	288,677
2	0,200	0,198	-0,0017	370,771
3	0,250	0,249	-0,0015	495,725
4	0,500	0,498	-0,0017	370,771
5	1,000	0,999	-0,0008	743,314
6	2,000	2,000	-0,0005	1112,196
7	4,000	4,001	0,0013	370,772
	0,000	#¡DIV/0!	#¡DIV/0!	#¡DIV/0!



Observations

* Uncertainty is estimated from the contributions of different influence variables such as the uncertainty of the standard , the resolution of the instrument and the repeatability of the measurements with a probability of 95% and a coverage factor of K = 2.

***Next calibration: April 16, 2019(12 Months)**

Realized by Daniel Castillo **Approved by** Eloy Ornelas

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