

Certificate No.: TW0436-822-102519
瑞士商梅特勒-托利多(股)公司台灣分公司
台北市內湖區 11494
舊宗路二段171巷17號2樓
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METTLER TOLEDO

Standard Calibration Certificate

Customer

Company:	瑞士商梅特勒-托利多股份有限公司台灣分公司		
Address:	內湖區舊宗路二段171巷17號2樓		
City:	台北市		
Zip/Postal:	114		
Contact:	N/A	Work Order No:	JOB000023537

Device

Manufacturer:	Mettler Toledo	Terminal Type:	PAT
Model:	XP205	Serial No. Terminal:	1128131694
Serial No.:	1128131694	Printer Serial No.:	N/A
Max Capacity:	220 g	Location:	N/A
Readability:	0.00001 g	Asset No.:	N/A
Scale Class:	I	Verification Value:	0.00003 g
Tolerance Type:	In-Service		

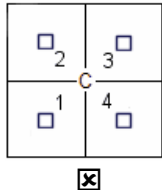
Procedure Statement: The device referenced in this document has been metrologically tested in accordance with METTLER TOLEDO Work Instruction. All translations into other languages are based on the referenced work instruction, which is in English.
This certificate refers to : As Found

Conform Statement: This device was tested in accordance with MT SOP # VP0080A and is certified to **CONFORM** with MT Procedures.

Test Date:	25-十月-2019	Next Cal. Due Date:	24-十月-2020
Service Technician:	Kimi Chen	Signature:	ELECTRONIC SIGNATURE

Measuring Results

Eccentricity

	Test Weight	100 g	
		AS FOUND	
	Position	Displayed Value	Deviation
	Center	100.00012 g	N/A
	Left Front	100.00005 g	0.00007 g
	Left Rear	100.00008 g	0.00004 g
	Right Rear	100.00017 g	0.00005 g
	Right Front	100.00007 g	0.00005 g
	Deviation:	0.00007 g	
	Allowable Deviation:	0.00009 g	
	Within Tolerances:	YES	

Linearity

	As Found				
	CMV	Reading	Error	Allowable Error	Within Tolerances
1	0.00000 g	0.00000 g	0.00000 g	0.00003 g	YES
2	0.01000 g	0.00998 g	-0.00002 g	0.00003 g	YES
3	20.00004 g	20.00004 g	0.00000 g	0.00009 g	YES
4	50.00005 g	50.00007 g	0.00002 g	0.00009 g	YES
5	100.00012 g	100.00014 g	0.00002 g	0.00009 g	YES
6	150.00017 g	150.00019 g	0.00002 g	0.00009 g	YES
7	220.00024 g	220.00030 g	0.00006 g	0.00009 g	YES

Repeatability

Test Weight: 100 g

	<i>Without Test Weight</i>	<i>With Test Weight</i>	<i>Actual Value</i>
1	0.00000 g	100.00013 g	100.00013 g
2	0.00000 g	100.00012 g	100.00012 g
3	0.00000 g	100.00012 g	100.00012 g
4	0.00000 g	100.00012 g	100.00012 g
5	0.00000 g	100.00009 g	100.00009 g
6	0.00000 g	100.00013 g	100.00013 g
7	0.00000 g	100.00013 g	100.00013 g
8	0.00000 g	100.00013 g	100.00013 g
9	0.00000 g	100.00014 g	100.00014 g
10	0.00000 g	100.00014 g	100.00014 g
<i>Deviation:</i>			0.00005 g
<i>Allowable Error:</i>			0.00009 g
<i>Within Tolerances:</i>			YES

Uncertainty

<i>Loads Applied</i>	x_i	0 g	0.01 g	20 g	50 g
<i>Combined Uncertainty</i>	$u(E_i)$	± 0.000014 g	± 0.000014 g	± 0.000019 g	± 0.000028 g

<i>Loads Applied</i>	x_i	100 g	150 g	220 g	N/A
<i>Combined Uncertainty</i>	$u(E_i)$	± 0.000051 g	± 0.000075 g	± 0.000107 g	N/A

Note that measurement uncertainty was not included in the comparison to the MPE. If your procedures require inclusion of measurement uncertainty, the current uncertainty requires increasing the MPE by an expansion factor of 186%.

Reference Weights

Traceability All weights used for metrological testing are traceable to national or international standards. The weights were calibrated and certified by an accredited calibration laboratory.

Weight Set 1

Weight Set No.:	SVC-A0035	Certificate Number:	T1812060101
Class:	E2	Date of Issue:	10-十二月-2018
Calibration Due Date:	9-十二月-2019	Description 1 :	1mg-1kg
Description 2 :	TPE	Description 3 :	TAF

Weight Set 2

Weight Set No.:	SVC-A0035(10g)	Certificate Number:	18C400664
Class:	E2	Date of Issue:	10-十二月-2018
Calibration Due Date:	9-十二月-2019	Description 1 :	10g
Description 2 :	TAF	Description 3 :	TPR

Weight Set 3

Weight Set No.:	SVC-A0035(20g)	Certificate Number:	18C400665
Class:	E2	Date of Issue:	10-十二月-2018
Calibration Due Date:	9-十二月-2019	Description 1 :	20g
Description 2 :	TAF	Description 3 :	TPE

Weight Set 4

Weight Set No.:	SVC-A0035(20g*)	Certificate Number:	18C400666
Class:	E2	Date of Issue:	10-十二月-2018
Calibration Due Date:	9-十二月-2019	Description 1 :	20g*
Description 2 :	TAF	Description 3 :	TPE

Weight Set 5

Weight Set No.:	SVC-A0035(50g)	Certificate Number:	18C400667
Class:	E2	Date of Issue:	10-十二月-2018
Calibration Due Date:	9-十二月-2019	Description 1 :	50g
Description 2 :	TAF	Description 3 :	TPE

Weight Set 6

Weight Set No.: SVC-A0035(500g)

Certificate Number: 18C400668

Class: E2

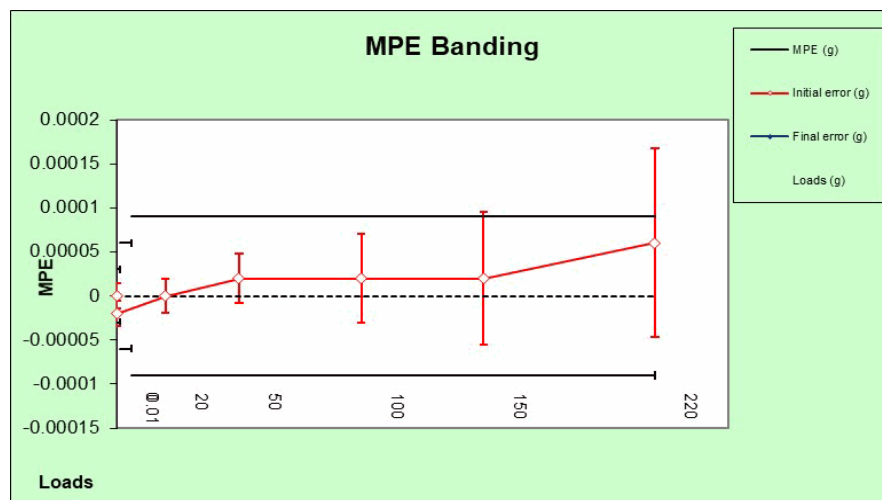
Date of Issue: 10-十二月-2018

Calibration Due Date: 9-十二月-2019

Description 1 : 500g

Description 2 : TAF

Description 3 : TPE

MPE Banding*Maximum Permissible Error**Class I* $e = 0.00003 \text{ g}$

Start	End	Tolerance
0.00	1.50	0.00003
1.50	6.00	0.00006
6.00	220.00	0.00009

In-Service Tolerance

Remarks

N/A