

Ref No. : 004046

Date: October 8, 2013

SUBJECT : Required Specification for Gold and Diamond Balance

Dear Valuable Shop Owner,

In compliance to **OIML International Standard** and as per **ESMA requirements**, gold and diamond balances that are being used in the market shall fully comply as explained below.

S/N	Balance Category	Required Class of the Balance
1	Gold Verification	II
2	Diamond Verification	I

Furthermore, table below that is derived from OIML R76-1 standard describes the minimum requirement of number of verification scale intervals for the balance classification / accuracy.

Table 3 of OIML R76-1

Accuracy class	Verification scale interval, e	Number of verification scale intervals, $n = \text{Max}/e$		Minimum capacity, Min (Lower limit)
		Minimum	Maximum	Maximum
Special (I)	$0.001 \text{ g} \leq e^*$	50 000**	–	100 e
High (II)	$0.001 \text{ g} \leq e \leq 0.05 \text{ g}$	100	100 000	20 e
	$0.1 \text{ g} \leq e$	5 000	100 000	50 e
Medium (III)	$0.1 \text{ g} \leq e \leq 2 \text{ g}$	100	10 000	20 e
	$5 \text{ g} \leq e$	500	10 000	20 e
Ordinary (III)	$5 \text{ g} \leq e$	100	1 000	10 e

Table below shows an example how to determine the Classification and category of your balance.

S/N	Balance Category	Readability of Balance (d)	Verification Scale Interval ($e = 10d$)	Capacity	$n (\text{Max} / e)$	Classification
1	Diamond Verification	0.001 g	0.01 g	500 g	50,000	I
2		0.0001 g	0.001 g	210 g	210,000	I
3		0.0001 g	0.001	120 g	120,000	I
4	Gold Verification	0.001 g	0.01	320 g	32,000	II
5		0.01 g	0.1	3100 g	31,000	II

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To further assist you, we have made a list of recommended commercial balances stating the manufacturer, model number, item description and its classification to serve as a guide for you. (Refer to Attachment A, Attachment B, Attachment C and Attachment D)

Kindly take note that the commercial balances included in our list are just our recommendation, it means that you can still purchase other brands or models you prefer as long as it will comply with the requirements of Table 3 of OIML R76-1.

In case your electronic balance is out of tolerance as per the requirements of ESMA & OIML standard, your balance will be treated as **UNFIT BALANCE** and you are legally required to remove from service or otherwise you can be legally penalized for violating the laws & regulations.

For further clarifications or any inquiries, please contact us on:

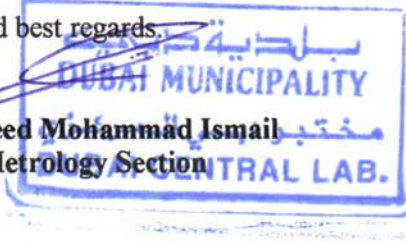
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For your information and reference.

Thanks and best regards.



Eng. Fareed Mohammad Ismail
Head of Metrology Section



Attachment A

Model Number / Product Name	Category	Manufacturer	Item Description
PAJ812	Jewellery	Ohaus	Max:810g d:10mg
PAJ2102	Jewellery	Ohaus	Max:2100g d:10mg
PAJ2102C	Jewellery	Ohaus	Max:2100g d:10mg
PAJ4102	Jewellery	Ohaus	Max:4100g d:10mg
PAJ4102C	Jewellery	Ohaus	Max:4100g d:10mg
SPJ602	Jewellery	Ohaus	Max:600g d:10mg
PAJ603C	Diamond	Ohaus	Max:625ct / 125g d:1mct / 0,1mg
PAJ1003C	Diamond	Ohaus	Max:1050ct / 210g d:1mct / 0,1mg
PAJ2003C	Diamond	Ohaus	Max:2050ct / 410g d:10mct /1mg
Auxiliary display for all PAJ models	Jewellery	Ohaus	Auxiliary display for all PAJ models
Auxiliary display for all SPJ & TAJ models	Jewellery	Ohaus	Auxiliary display for all SPJ & TAJ models
Impact Printer CBM910	Jewellery	Ohaus	Impact Printer CBM910
Impact Printer SRP275	Jewellery	Ohaus	Impact Printer SRP275
ME203	Jewellery	Mettler	Max:220g d:1mg
ME2002E	Jewellery	Mettler	Max:2200g d:10mg
ME3002E	Jewellery	Mettler	Max:3200g d:10mg
ME4002E	Jewellery	Mettler	Max:4200g d:10mg
ME1002E	Jewellery	Mettler	Max:1200g d:10mg

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Attachment B

Model Number / Product Name	Category	Manufacturer	Item Description
PS1200/C/2	Jewellery	RADWAG	Max: 1200gm, d: 10mg
PS4500/C/2	Jewellery	RADWAG	Max: 4500gm, d: 10mg
APS120/C/2/ct	Diamond	RADWAG	Max: 1200gm/600ct, d:0.0002gm/0.001ct
APS220/C/2/ct	Diamond	RADWAG	Max:220gm/1100ct, d: 0.0002gm/0.001ct
UX2200H	Jewellery	SHIMADZU	Max: 2200gm d: 10mg
UX4200H	Jewellery	SHIMADZU	Max: 4200gm d: 10mg
TX2202L	Jewellery	SHIMADZU	Max: 2200gm d: 10mg
TX3202L	Jewellery	SHIMADZU	Max: 3200gm d: 10mg

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Attachment C

Model Number / Product Name	Category	Manufacturer	Item Description
PFB600-2M	Jewellery	KERN	Max: 600gms d: 10mg
Auxiliary display (PFB-A08)	Jewellery	KERN	Auxiliary display
PLJ3500-2NM	Jewellery	KERN	Max : 3500gms d: 10mg
PLJ600-2GM	Jewellery	KERN	Max : 600gms d:10mg
PLJ600-3NM	Jewellery	KERN	Max : 600gms d: 1mg
ABJ220-4NM	Diamond	KERN	Max : 220gms d: 0.1mg

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Attachment D

Model Number / Product Name	Category	Manufacturer	Item Description
GE 812	Jewellery	SARTORIUS	Max: 810gms d: 0.01g
GE 512	Jewellery	SARTORIUS	Max: 510gms d: 0.01g
GCA 803S	Diamond	SARTORIUS	Max: 800ct d: 0.001ct
GD 603	Diamond	SARTORIUS	Max: 600ct d: 0.001ct
GW 3202	Jewellery	SARTORIUS	Max : 3200gms d: 0.01g

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