



Verification of Accuracy of Electronic General Purpose Balance

➤ **Procedure**

- ▶ Set up the balance in a location away from drafts or excessive air movement that might affect the read-out.
- ▶ Level the balance and if weighing in water, observe that the suspension apparatus is free of any obstructions that might affect its movement.

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Procedure (continued)

- ▶ For balances with anticipated usage of 10,000 grams or less, the verification weights will be 100 grams, 1000 grams, 5000 grams and 10,000 grams.
- ▶ For balances with anticipated usage of 10,000 or more, the verification weights will be 5000 grams, 10,000 grams and 15,000 grams.
- ▶ If one balance is to be used for both of the listed ranges verify using all weights.

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Procedure (continued)

- ▶ Place the weight for each verification in five locations (the center and four corners) of the balance using the full range and record the actual weight obtained.
- ▶ Allowable tolerance for each verification is + or - 0.1% of the weight used.

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Procedure (continued)

- ▶ If any recorded weight exceeds the allowable range discontinued use of the balance until the balance is calibrated or repaired and a complete new verification is performed.
- ▶ copies of all worksheets will be signed by the individual performing the verification and will be kept with the balance.

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Scales



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Balance Verification Worksheet

Manufacturer: METTLER
Model: PE 11
Serial #: J98627

D
E
A Front B
C

Verification Weight (grams)	100	1000	5000	10,000	15,000
Tolerance (grams)	0.1	1.0	5.0	10.0	15.0
Allowable Range (grams)	99.9-100.1	999.0-1001.0	4995.0-5005.0	9990.0-10,010.0	14,985.0-15,015.0
Reading A	100.1	1000.2	5000.6	10,000.8	15,006.1
Reading B	100.0	1000.8	5000.9	10,001.4	15,007.0
Reading C	100.1	1000.7	5001.1	10,001.8	15,007.9
Reading D	100.0	1000.2	5001.6	10,003.0	15,008.4
Reading E	99.9	999.2	4998.2	9996.4	14,992.2

Meets allowable range requirements for all Verification Weights:
 YES NO
 Date: _____
 Signature: _____

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Balance Verification Worksheet

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D
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A Front B
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Verification Weight (grams)	100	1000	5000	10,000	15,000
Tolerance (grams)	0.1	1.0	5.0	10.0	15.0
Allowable Range (grams)	99.9-100.1	999.0-1001.0	4995.0-5005.0	9990.0-10,010.0	14,985.0-15,015.0
Reading A					
Reading B					
Reading C					
Reading D					
Reading E					

Meets allowable range requirements for all Verification Weights:
 YES NO
 Date: _____
 Signature: _____

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