

Test Report of the Test Unit.....to specify the name.....  
 who is a person carrying out the test of the prototype of  
 the spring weighing instrument

Model .....Capacity Range.....  
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Table 1 Result of Visual Inspection

No.	Characteristics of the Prototype of the Spring Weighing Instrument as Inspected	Result of Inspection (to mark ✓ or ✗ in the case of inaccuracy, please explain details)		
		Accuracy	Inaccuracy	Details (please specify)
1	a dial			
2	a weight rate indicator			
3	a weighing tray			
4	a setting part			
5	a place for sealing, stamping or displaying a verification mark			
6	a side cover plate			
7	the top and the base of the prototype of the spring weighing instrument			
8	scale marks			
9	a display of values of a weighing result and a unit used for weighing			
10	maximum capacity range (Max)			
11	minimum capacity range (Min = 10e)			
12	a part that displays a value of weight to support an elaborate reading value (d = e)			
13	a number of inspected and verified scale marks (n)			
14	working conditions of the prototype of the spring weighing instrument			

Doing a calculation to find out about the maximum permissible error of the prototype of the spring weighing instrument by substituting the value of “e” into the specified equations as follows:

Maximum Permissible Error for Inspection	Maximum Permissible Error for verification	Weight as Used for Testing Which is Displayed in the Unit of Inspected and Verified Scale Marks (e)
1.0 x e .....	0.5 x e .....	starting from 0 x e to 50 x e starting from ..... to .....
2.0 x e .....	1.0 x e .....	exceeding 50 x e to 200 x e starting from ..... to .....
3.0 x e .....	1.5 x e .....	exceeding 200 x e to 1,000 x e starting from ..... to .....

Table 2 Result of Weighing Performance Test

Test Point	Weight Rate as Used for Testing (L)	Weight as Displayed (I <sub>1</sub> )	Weight as Displayed after Testing of 10,000 Times or More (I <sub>2</sub> )	Maximum Permissible Error (MPE)	
				Inspected and Verified Rate (before Endurance)	Inspected Rate (after Endurance)
1	Minimum Capacity Range (Min) L = .....				
2	between Test Point 1 and Test Point 3 L = .....				

Test Point	Weight Rate as Used for Testing (L)	Weight as Displayed (I <sub>1</sub> )	Weight as Displayed after Testing of 10,000 Times or More (I <sub>2</sub> )	Maximum Permissible Error (MPE)	
				Inspected and Verified Rate (before Endurance)	Inspected Rate (after Endurance)
3	50% of Maximum Capacity Range (Max) L = .....				
4	between Test Point 3 and Test Point 6 (Value 1) L = .....				
5	between Test Point 3 and Test Point 6 (Value 2) L = .....				
6	Maximum Capacity Range (Max) L = .....				

**Test Result**

Pass

Not Pass

Criteria for Consideration  $I_1 - L \leq \text{MPE}$  (inspection and verification) and  $I_2 - L \leq \text{MPE}$  (inspection)

L (Load) means a weight rate which is used for testing.

I<sub>1</sub> (Indication<sub>1</sub>) means a weight which is displayed before testing of 10,000 times.

I<sub>2</sub> (Indication<sub>2</sub>) means a weight which is displayed after testing of 10,000 times.

MPE (Maximum Permissible Error) means maximum permissible error.

**Remark :** In the case where the weight rate used for testing is calculated as a decimal number, it shall be rounded to an integer.

Table 3 Result of Discrimination Test

Weight Rate Used for Testing (L)	Weight Rate as Increased or Decreased ( $\Delta L$ )	Weight as Displayed ( $I_1$ )	Placing Weight ( $\Delta L$ ) Weight as Displayed ( $I_2$ )	$I_2 - I_1$	0.7 MPE Inspected and Verified Rate
Minimum Capacity Range (Min) L = .....	MPE of Min $\Delta L = \dots\dots\dots$				
Approximate 50% of Maximum Capacity Range (Max) L = .....	MPE of Approximate 50% Max $\Delta L = \dots\dots\dots$				
Near Maximum Capacity Range (Near Max) L = .....	MPE of Near Max $\Delta L = \dots\dots\dots$				

**Test Result** Pass Not PassCriteria for Consideration  $I_2 - I_1 \geq 0.7$  MPE (inspected and verified rates)

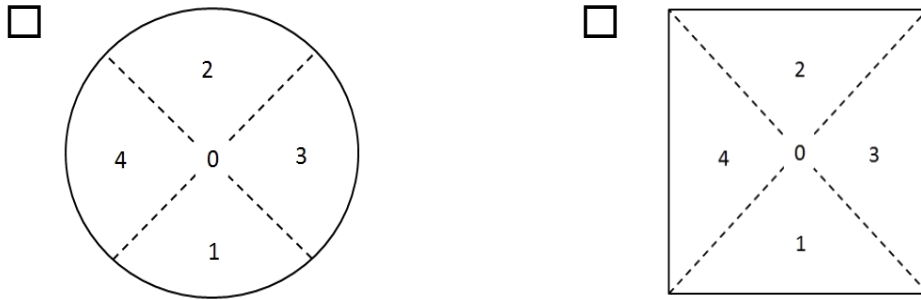
L (Load) means a weight rate which is used for testing.

 $\Delta L$  (Additional load to next changeover point) means a weight rate which is increased or decreased. $I_1$  (Indication<sub>1</sub>) means a weight which is displayed before testing of 10,000 times. $I_2$  (Indication<sub>2</sub>) means a weight which is displayed after testing of 10,000 times.

MPE (Maximum Permissible Error) means maximum permissible error.

**Remark :** In the case where the weight rate used for testing is calculated as a decimal number, it shall be rounded to an integer.

Table 4 Result of Eccentricity Test



Test Point	Weight Rate as Used for Testing (L)	Weight as Displayed (I <sub>1</sub> )	Weight as Displayed after Testing of 10,000 Times or More (I <sub>2</sub> )	Maximum Permissible Error (MPE)	
				Inspected and Verified Rate (before Endurance)	Inspected Rate (after Endurance)
1	Approximate 1/3 of Maximum Capacity Range (Max) L = .....				
2					
3					
4					
I <sub>Max</sub> - I <sub>Min</sub> =					

**Test Result**

Pass       Not Pass

Criteria for Consideration (1)  $I_{1Max} - I_{1Min} \leq |MPE|$  (inspection and verification) and  $I_{2Max} - I_{2Min} \leq |MPE|$  (inspection)

(2) and  $I_1 - L \leq MPE$  (inspection and verification) and  $I_2 - L \leq MPE$  (inspection)

- L (Load) means a weight rate which is used for testing.
- I<sub>1</sub> (Indication<sub>1</sub>) means a weight which is displayed before testing of 10,000 times.
- I<sub>2</sub> (Indication<sub>2</sub>) means a weight which is displayed after testing of 10,000 times.
- I<sub>Max</sub> (Maximum Indication) means a maximum weight which is displayed.
- I<sub>Min</sub> (Minimum Indication) means a minimum weight which is displayed.
- MPE (Maximum Permissible Error) means maximum permissible error.

**Remark :** In the case where the weight rate used for testing is calculated as a decimal number, it shall be rounded to an integer.

Table 5 Result of Repeatability Test

Number of Test	Weight Rate as Used for Testing (L)	Weight as Displayed ( $I_1$ )	Weight as Displayed after Testing of 10,000 Times or More ( $I_2$ )	Maximum Permissible Error (MPE)	
				Inspected and Verified Rate (before Endurance)	Inspected Rate (after Endurance)
1	Approximate 50% of Maximum Capacity Range (Max) L= .....				
2					
3					
4					
5					
$I_{Max} - I_{Min} =$					

L (Load)

means a weight rate which is used for testing.

$I_1$  (Indication<sub>1</sub>)

means a weight which is displayed before testing of 10,000 times.

$I_2$  (Indication<sub>2</sub>)

means a weight which is displayed after testing of 10,000 times.

$I_{Max}$  (Maximum Indication)

means a maximum weight which is displayed.

$I_{Min}$  (Minimum Indication)

means a minimum weight which is displayed.

MPE (Maximum Permissible Error) means maximum permissible error.

**Remark :** In the case where the weight rate used for testing is calculated as a decimal number, it shall be rounded to an integer.

Table 6 Result of Creep Test

Duration	Weight Rate as Used for Testing (L)	Weight as Displayed (I <sub>1</sub> )	Maximum Permissible Error as Inspected and Verified (MPE)
15 minutes	Near Maximum Capacity Range (Near Max) L = .....		
30 minutes			
4 hours			

**Test Result** Pass Not Pass

Criteria for Consideration  $I_1 - L \leq MPE$  (inspection and verification)

L (Load) means a weight rate which is used for testing.

I<sub>1</sub> (Indication<sub>1</sub>) means a weight which is displayed.

MPE (Maximum Permissible Error) means maximum permissible error.

**Remark** : In the case where the weight rate used for testing is calculated as a decimal number, it shall be rounded to an integer.

Table 7 Result of Tilting Test

Test Point	Weight Rate as Used for Testing (L)	Weight as Displayed ( $I_1$ )	Weight as Displayed after Testing of 10,000 Times or More ( $I_2$ )	Maximum Permissible Error (MPE)	
				Inspected and Verified Rate (before Endurance)	Inspected Rate (after Endurance)
1	Minimum Capacity Range (Min) L= .....				
2	Approximate 50% of Maximum Capacity Range (Max) L= .....				
3	Near Maximum Capacity Range (Near Max) L= .....				

**Test Result** Pass Not Pass

Criteria for Consideration  $I_1 - L \leq \text{MPE}$  (inspection and verification) and  $I_2 - L \leq \text{MPE}$  (inspection)

L (Load) means a weight rate which is used for testing.

$I_1$  (Indication<sub>1</sub>) means a weight which is displayed before testing of 10,000 times.

$I_2$  (Indication<sub>2</sub>) means a weight which is displayed after testing of 10,000 times.

**Remark :** In the case where the weight rate used for testing is calculated as a decimal number, it shall be rounded to an integer.



Table 8 Result of Endurance Test

Weight Rate as Used for Testing L	Number of Times	Keeping a Record on Date - Time		Remark
		Starting a Test	Ending a Test	
Approximate 1/3 of Maximum Capacity Range (Max) L = .....	Starting from  10,000 Times  Upwards			
<p><b>Test Result</b>      <input type="checkbox"/> Pass      <input type="checkbox"/> Not Pass</p> <p>L (Load)      means a weight rate which is used for testing.</p> <p><b>Remark :</b> In the case where the weight rate used for testing is calculated as a decimal number, it shall be rounded to an integer.</p>				

Table 9 Summary of Test Result

No.	checklist of testing	Test Result			
		before Endurance		after Endurance	
		Pass	Not Pass	Pass	Not Pass
1	Visual Inspection				
2	Weighing Performance Test				
3	Discrimination Test				
4	Eccentricity Test				
5	Repeatability Test				
6	Creep Test				

No.	checklist of testing	Test Result			
		before Endurance		after Endurance	
		Pass	Not Pass	Pass	Not Pass
7	Tilting Test				
8	Endurance Test				

I hereby certify that the test results as mentioned above are correct and true in all respects.

(Signed).....Tester

(.....)

Position .....

Date ..... Month ..... B.E. ....

(Signed).....Authorized person

(.....) to bind a juristic person

(a juristic person's seal Position.....

to be stamped (if any)) Date ..... Month ..... B.E.....