



NSC – TISI – TIS 17025  
CALIBRATION 0262

## CALIBRATION CERTIFICATE

Certificate No. : 17EB 999  
Job No. : CI1708-999

Issue Date : 29 August 2017  
Location : Calibration Room

Customer Name : DIGITAL CALIBRATION CO.,LTD  
8 Soi Charoennakorn35, Charoennakorn Rd.  
Banglampooang, Klongsan,  
Bangkok 10600

Equipment Name : Electronic Balance  
Manufacturer : TIGER  
Model : TI-01  
Serial No. : 0000001  
ID No. : -  
Weighing Capacity : 300 kg  
Resolution : 0.02 kg  
Received Date : 28 August 2017  
Condition of calibrated item : Good

Calibration Date : 28 August 2017  
Ambient Temperature : ( 25 ± 2 ) °C  
Relative Humidity : ( 50 ± 30 ) %  
Atmospheric Pressure : ( 1010 ± 20 ) mbar  
Procedure Used : This calibration was conducted by using in-house calibration procedure number CP-B01-01 based on UKAS LAB14 : 2006

| Reference Standard | Instrument              | ID No.              | Certificate No. | Due date    |
|--------------------|-------------------------|---------------------|-----------------|-------------|
|                    | Weight M1 (1kg - 20 kg) | DCC 0044 to 0091-16 | M1701185S       | 30-Jan-2018 |

This certification is traceable to the International System of Unit

Calibrated by : Boonchuay Muenchaisit

Approved by : \_\_\_\_\_

- ( ) Mr. Chaiyapatr (Laboratory Manager)  
( ) Mr. Boonchuay Muenchaisit (Technical Manager)

The Uncertainties are for a Confidence Probability of Approximately 95%.

This certificate may not be reproduced other than in full except with the prior written approval of the head of Calibration Laboratory Department.



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### Result of calibration : Before Adjustment

| Nominal Value<br>( kg ) | Average Balance Reading<br>( kg ) | Correction Value<br>( kg ) | Uncertainty<br>( ± kg ) | Coverage Factor<br>( k ) |
|-------------------------|-----------------------------------|----------------------------|-------------------------|--------------------------|
| 30                      | 15.000                            | 15.001                     | 0.016                   | 2.00                     |
| 150                     | 75.000                            | 75.004                     | 0.017                   | 2.00                     |
| 300                     | 150.000                           | 150.009                    | 0.020                   | 2.00                     |

Adjustment By : ☐ Internal calibration ☐ External calibration at ☒ Without calibration

### Result of calibration : After Adjustment

#### 1. Repeatability (n = 5 number of measurement)

| Nominal Value<br>( kg ) | Standard deviation of reading<br>( kg ) |
|-------------------------|---|
| 300                     | 0.0000                                  |

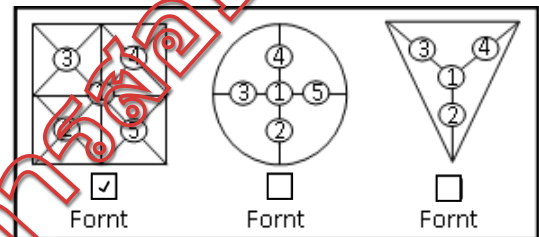


Figure. 1

#### 2. Departure of indication from nominal value

| Nominal Value<br>( kg ) | Average Balance Reading<br>( kg ) | Correction Value<br>( kg ) | Uncertainty<br>( ± kg ) | Coverage Factor<br>( k ) |
|-------------------------|-----------------------------------|----------------------------|-------------------------|--------------------------|
| 30                      | 30.000                            | 0.001                      | 0.016                   | 2.00                     |
| 60                      | 60.000                            | 0.002                      | 0.016                   | 2.00                     |
| 90                      | 90.000                            | 0.003                      | 0.016                   | 2.00                     |
| 120                     | 120.000                           | 0.004                      | 0.017                   | 2.00                     |
| 150                     | 150.000                           | 0.004                      | 0.017                   | 2.00                     |
| 180                     | 180.000                           | 0.005                      | 0.020                   | 2.00                     |
| 210                     | 210.000                           | 0.006                      | 0.020                   | 2.00                     |
| 240                     | 240.000                           | 0.007                      | 0.020                   | 2.00                     |
| 270                     | 270.000                           | 0.008                      | 0.020                   | 2.00                     |
| 300                     | 300.000                           | 0.009                      | 0.020                   | 2.00                     |

#### 3. Eccentric or off-centre loading (Figure. 1)

| Nominal Value 100 kg                                     |                   |                   |                   |                   |
|--|-------------------|-------------------|-------------------|-------------------|
| Position 1 ( kg )  | Position 2 ( kg ) | Position 3 ( kg ) | Position 4 ( kg ) | Position 5 ( kg ) |
| Off-Centre   | 0.000             | 0.000             | 0.000             | 0.000             |
| Maximum difference between off-centre loading = 0.000 kg |                   |                   |                   |                   |

Approved by : \_\_\_\_\_

This result of calibration was found accurate as shown on date and place of calibration only.

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor k, providing a level of confidence of approximately 95%.

-End of report-

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