testcertificate

S-A-LE 295



Dorshorst 2

 7217PH Harfsen
 Netherlands

Instrument: Weighing instrument
id nr.: 295

Model: Mettler PM 4600
CAL. Date: 23 May 2017

Weighing instrument

nr. 295: MetTler PM 4600

# Specifications

Range: 0 – 600g / 0 – 4100g

Readability/Accuracy: 0,01g / 0,1g

Voltage: 230 V

Measuring temperature: 20°C +/- 5°C

Calibration weight: Mettler Toledo 20g E2

 Mettler Toledo 1000g E2

The acceptance criterion of the deviation for repeatability and accuracy is 0,1% of the used weight. This criterion is based on an estimated acceptable contribution to the total measurement error of an analysis.

# Measurements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Measurement | Series 1 (g) | Series 2 (g) | Series 3 (g) | Series 4 (g) |
| 1 | 20,00 | 20,00 | 1000,0 | 1000,0 |
| 2 | 20,00 | 20,00 | 1000,0 | 1000,0 |
| 3 | 20,00 | 20,00 | 1000,0 | 1000,0 |
| 4 | 20,00 | 20,00 | 999,9 | 1000,0 |
| 5 | 20,00 | 20,00 | 1000,0 | 1000,0 |
| Average | 20,00 | 20,00 | 999,98 | 1000,0 |
| Standard deviation | 0 | 0 | 0,0447 | 0 |
| Repeatability (%) | 0 | 0 | <0,01 | 0 |
| Accuracy (%) (1) | 0 | 0 | <0,01 | 0 |

1. Expressed as deviation of the true weight

Series 1 and 2 are conducted with a weight of 20g. In series 1 the weight was solely placed on the weighing platform. In series 2 an object with a mass of 670g was placed on the platform and the tare option was used. Then the weighing of the 20g weight was conducted.

Series 3 and 4 are conducted with a weight of 1000g. In series 4 the tare option was used after placing the same weight of 670g in series 2. Then the weighing of the 1000g weight was conducted.

# Conclusion

The instrument meets the acceptance criterion.

# Authorisation: 23-5-2017



H. Kerkdijk,

Director S-A-LE

Date: 23-5-2017