

**Certificate Number 48531**

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27 June 2025

Total Laboratory Services Limited  
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## CERTIFICATE OF CALIBRATION

We hereby certify that the six cast iron, brass and flat plate weights 20kg – 100mg listed below have been calibrated to fall within O.I.M.L. class M<sub>1</sub> tolerance.

Nominal Value	Difference from Nominal Value in mg
20 kg W2404	+ 957
10 kg W2405	+ 441
5 kg W752	+ 23
1 g 9868	+ 0.1
500 mg 9868	+ 0.4
100 mg 9868	+ 0.1

The measured values reported in this certificate were determined by comparison weighing methods against our laboratory's reference standards with a hypothetical density of 8000 kg/m<sup>3</sup> which in air of density 1.2kg/m<sup>3</sup> would balance the nominal weight.

**Traceability** to National Standards is established by comparison to WEIGHTS standard class E<sub>2</sub> weight set number 988 certified on UKAS certificate number UP1228. Date of issue 21st August 2024 by Norfolk Calibration Services. UKAS calibration number 0260.

### Recommended Recalibration - September 2026.

Why should recalibration be carried out? Recalibration of test equipment is a major requirement for quality management systems. All test weights vary with time due to wear and the collection of grime. The extreme of weight change varies with the environment the weights are used in, consequently periodic recalibration at regular intervals is required.

Signed



OIML +/- maximum permissible tolerance on calibration weights						
Nominal Value	Class E <sub>1</sub> mg	Class E <sub>2</sub> mg	Class F <sub>1</sub> mg	Class F <sub>2</sub> mg	Class M <sub>1</sub> mg	Class M <sub>2</sub> mg
50kg	25	80	250	800	2,500	8,000
20kg	10	30	100	300	1,000	3,000
10kg	5.0	16	50	160	500	1,600
5kg	2.5	8.0	25	80	250	800
2kg	1.0	3.0	10	30	100	300
1kg	0.5	1.6	5.0	16	50	160
500g	0.25	0.8	2.5	8.0	25	80
200g	0.10	0.3	1.0	3.0	10	30
100g	0.05	0.16	0.5	1.6	5.0	16
50g	0.03	0.10	0.3	1.0	3.0	10
20g	0.025	0.08	0.25	0.8	2.5	8.0
10g	0.020	0.06	0.20	0.6	2.0	6.0
5g	0.016	0.05	0.16	0.5	1.6	5.0
2g	0.012	0.04	0.12	0.4	1.2	4.0
1g	0.010	0.03	0.10	0.3	1.0	3.0
500mg	0.008	0.025	0.08	0.25	0.8	2.5
200mg	0.006	0.020	0.06	0.20	0.6	2.0
100mg	0.005	0.016	0.05	0.16	0.5	1.6
50mg	0.004	0.012	0.04	0.12	0.4	-
20mg	0.003	0.010	0.03	0.10	0.3	-
10mg	0.003	0.008	0.025	0.08	0.25	-
5mg	0.003	0.006	0.020	0.06	0.20	-
2mg	0.003	0.006	0.020	0.06	0.20	-
1mg	0.003	0.006	0.020	0.06	0.20	-