

**Certificate number 46865**

**02 November 2023**

**Total Laboratory Services Limited  
Unit 14C Sunrise Business Park  
Blandford Forum  
Dorset  
DT11 8ST**

## CERTIFICATE of CALIBRATION

We hereby certify that the three stainless steel listed weights 10kg 5kg and 2kg listed have been calibrated to fall within O.I.M.L. class M<sub>1</sub> tolerance.

Nominal Value	Difference from Nominal Value mg
10kg (313-85)	+ 176
5kg (164-77)	+ 68
2kg (74-97)	+ 44

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.

WEIGHTS standard class E<sub>2</sub> weight set number 988 certified on UKAS certificate number UN0627  
Date of issue 28th June 2023 by Norfolk Calibration Services. UKAS calibration number 0260.

**Traceability** to National Standards is established by comparison to Norfolk Calibration Services class E<sub>2</sub> weight sets.

**Recommended recalibration February 2025.** 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	-

**Note: Non standard weights not listed, the next highest weight tolerance applies.**