Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

0054

Accredited to ISO/IEC 17025:2017

ITW Ltd trading as Avery Weigh-Tronix

Issue No: 057 **Issue date:** 04 July 2025

Foundry Lane
Smethwick
West Midlands
B66 2LP

Contact: Mr J Cameron
Tel: +44 (0) 121 568 1478
E-Mail: jcameron@awtx-itw.com
Website: www.averyweigh-tronix.com

Calibration performed by the Organisations at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address Foundry Lane Smethwick West Midlands B66 2LP **Local contact** Mr J Cameron	Force Vehicle wheel loading scales Mass Mass (weights)	LAB

Mass/Weighing Machines	Force
Contact: Ishverlal Patel Tel: 0121 568 1576 E-mail: ipatel@awtx-itw.com Website: www.averyweigh-tronix.com	Contact: Saba Sayyahi Tel: 0121 568 1408 E-mail: ssayyahi@awtx-itw.com Website: www.averyweigh-tronix.com

Site activities performed away from the locations listed above:

Location details	Activity	Location code
At customers premises The customers' site or premises must be suitable for the nature of the particular calibrations undertaken and will be the subject of contract review arrangements between the laboratory and the customer.	Mass (Weighing machines)	Site

Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location
FORCE			Calibrations can be performed in accordance with: BS EN ISO 376:2011 and ASTM E74-18e1	LAB
Proving devices, load cells and other force-measuring devices in compression and tension modes	Machine No. XP001 5.5 kN to 20 kN 20 kN to 500 kN Machine No. XP002 0.08 kN to 0.5 kN 0.5 kN to 5 kN 5 kN to 11 kN Machine No. XP003 2.2 N to 356 N	 0.0094 % 0.0077 % 0.021 % 0.017 % 0.0092 % 0.019 %		
Vehicle wheel loading scales	3.9 kN to 19.6 kN 19.6 kN to 39.2 kN 39.2 kN to 196 kN	2.0 % 1.2 % 0.80 %	Calibrations in compression only and can be reported in kgf, lbf units	LAB
MASS	Nominal value (g)	(mg)		LAB
See notes 1 and 2	25 000 20 000 10 000 5 000 2 000 1 000 500 200 100 50 20 10 5 2 1 0.5 0.2 0.1 0.05 0.02 0.01 0.005 0.002 0.001	200 20 10 5.0 2.0 1.0 0.5 0.20 0.10 0.060 0.050 0.040 0.032 0.024 0.020 0.016 0.012 0.010 0.008 0 0.006 0 0.005 0 0.004 0 0.004 0 0.004 0	1. Intermediate values can be calibrated with an uncertainty not less than that interpolated from the next higher and lower nominal value in the table. 2. Calibrations are performed using Borda's method of substitution	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location
NON AUTOMATIC WEIGHING MACHINES See notes 1 to 4 From 1 mg to 50 000 kg	200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g 500 g 1 kg 2 kg 5 kg 10 kg 20 kg 50 kg 100 kg 200 kg 500 kg 1000 kg 2000 kg 5000 kg 10 000 kg 20 000 kg 50 000 kg	0.015 mg 0.020 mg 0.025 mg 0.030 mg 0.038 mg 0.052 mg 0.067 mg 0.095 mg 0.17 mg 0.34 mg 0.85 mg 1.7 mg 5.6 mg 14 mg 28 mg 56 mg 160 mg 890 mg 4.2 g 42 g 83 g 170 g 420 g 1200 g 2300 g 9400 g	1. Weights are available in OIML Class: E2 from 1 mg to 200 g, max. grouped load 1 kg F1 from 5 mg to 10 kg, max. grouped load 200 kg M1 from 1 g to 1000 kg, max. grouped load 50 000 kg Substitution loads may be used above 1000 kg 2. Other loads within the overall listed range may also be used. 3. The method of calibration is based on EURAMET CG-18 4. Substitution loads may be used above 1,000 kg. CMC cannot be attained with substitution loads.	SITE
END				

Appendix - Calibration and Measurement Capabilities

Introduction

The definitive statement of the accreditation status of a calibration laboratory is the Accreditation Certificate and the associated Schedule of Accreditation. This Schedule of Accreditation is a critical document, as it defines the measurement capabilities, ranges and boundaries of the calibration activities for which the organisation holds accreditation.

Calibration and Measurement Capabilities (CMCs)

The capabilities provided by accredited calibration laboratories are described by the Calibration and Measurement Capability (CMC), which expresses the lowest measurement uncertainty that can be achieved during a calibration. If a particular device under calibration itself contributes significantly to the uncertainty (for example, if it has limited resolution or exhibits significant non-repeatability) then the uncertainty quoted on a calibration certificate will be increased to account for such factors.

The CMC is normally used to describe the uncertainty that appears in an accredited calibration laboratory's schedule of accreditation and is the uncertainty for which the laboratory has been accredited using the procedure that was the subject of assessment. The measurement uncertainty is calculated according to the procedures given in the GUM and is normally stated as an expanded uncertainty at a coverage probability of 95 %, which usually requires the use of a coverage factor of $k = 2$. An accredited laboratory is not permitted to quote an uncertainty that is smaller than the published measurement uncertainty in certificates issued under its accreditation.

Expression of CMCs - symbols and units

It should be noted that the percentage symbol (%) represents the number 0.01. In cases where the measurement uncertainty is stated as a percentage, this is to be interpreted as meaning percentage of the measurand.
Thus, for example, a measurement uncertainty of 1.5 % means $1.5 \times 0.01 \times q$, where q is the quantity value.

The notation Q[a, b] stands for the root-sum-square of the terms between brackets: $Q[a, b] = [a^2 + b^2]^{1/2}$