Calibration Certificate

Avery Weigh-Tronix
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Tel: 0845 900 22 44

Customer Details

Name : Chas Storer Ltd
Address : Coopers Lane
Northaw
Potters Bar
EN6 4NE

Contact Name : Simon Cassar
Telephone No. 01707656261

Certificate No. 109305995/0101

Date of Calibration : 08/07/2024
Next Calibration Due : Jul 2025

Agreement No.
Location : POTTERS BAR
Department : YARD
Plant Number :
Manufacturer : Avery Weigh-Tronix
Model : ZM510-SD4
Serial No : 232050154
Capacity : 50000.0 kg
Resolution : 20.0 kg
Tolerance : +/-60kg
Calibration Frequency : 01 x P.A - Both

Test Weight Details

Weight Set No. & Certificate No.

W001 A0365:W001 A036

Test weights and equipment are traceable to national standards.

Linearity / Accuracy Test

Test Point	As Found Reading	As Found Deviation	Definitive Reading	Definitive Deviation
0 kg	0 kg	0 kg	0 kg	0 kg
4,000 kg	4,000 kg	0 kg	4,000 kg	0 kg
8,000 kg	8,000 kg	0 kg	8,000 kg	0 kg
12,000 kg	12,000 kg	0 kg	12,000 kg	0 kg
16,000 kg	16,000 kg	0 kg	16,000 kg	0 kg
21,900 kg	21,900 kg	0 kg	21,900 kg	0 kg
Substituted load				
24,380 kg	24,380 kg	0 kg	24,380 kg	0 kg
40,380 kg	40,380 kg	0 kg	40,380 kg	0 kg
46,280 kg	46,280 kg	0 kg	46,280 kg	0 kg

Off Centre Loading Test 2 3 1 4 or End -Middle-End 1-2-3

Test Point	As Found Reading	As Found Deviation	Definitive Reading	Definitive Deviation
9,900 kg	9,920 kg	20 kg	9,920 kg	20 kg
9,900 kg	9,900 kg	0 kg	9,900 kg	0 kg
9,900 kg	9,900 kg	0 kg	9,900 kg	0 kg
9,900 kg	9,900 kg	0 kg	9,900 kg	0 kg

Repeatability Test

Test Point	As Found Reading	As Found Deviation	Definitive Reading	Definitive Deviation
40,380 kg	40,380 kg	0 kg	40,380 kg	0 kg
40,380 kg	40,380 kg	0 kg	40,380 kg	0 kg
40,380 kg	40,380 kg	0 kg	40,380 kg	0 kg

This certificate complies with the United Kingdom Weighing Federation Calibration Code of Practice for non-automatic weighing instruments.

Comments

Make-up weight used. System within tolerance and weighing correct

For key calibration information please login to https://averyweigh-tronix.com

Tolerances

Unless otherwise agreed tolerances will be those permitted by current Weights and Measures Regulations for Class III machines as follows:

0-500 divisions	+/- 1 divn.
>500-2000 divisions	+/- 2 divn.
>2000 divisions	+/- 3 divn.

Technicians Name: Le Tissier Gavin

Technicians Signature:

ITW Limited trading as Avery Weigh-Tronix. Registered Office: Saxon House, 2-4 Victoria Street, Windsor, SL4 1EN England. England No. 559693.

Avery Weigh-Tronix

CALIBRATION SERVICE: KEY INFORMATION

1. CERTIFICATES AND TOLERANCES
Measurements will be recorded over the equipment's working range and a Certificate of Calibration provided (hereafter referred to as Certificate) showing performance to a specified tolerance. Unless otherwise agreed, tolerances will be those permitted by current Weights and Measures Regulations for Class III machines in relation to the obliteration of stamps as follows: 0 to 500 divisions = +/- 1division, >500 to 2000 divisions = +/- 2 divisions, > 2000 divisions = +/- 3 divisions.

2. AS FOUND CERTIFICATE
An 'As Found ' test will be conducted without any prior adjustments and/or repair being made apart from usual preparations for weighing such as Zero balancing or levelling carried out in accordance with the customer's normal operating procedures.

3. DEFINITIVE CERTIFICATE
A' Definitive' test is usually carried out after the necessary adjustments have been made. If any required adjustments and/or repairs are covered by a Service Agreement they will be carried out prior to the Definitive Test. If the equipment requires work not covered by a Service Agreement, Avery Weigh-Tronix will quote for any rectification work required and will give the customer the option to suspend the definitive test until such work has been carried out. Avery Weigh-Tronix reserves the right to charge for additional costs incurred if a test is suspended for any reason outside of their control.

4. ADJUSTMENTS AND REPAIRS
The Calibration Service does not cover adjustments and repair to equipment, though necessary adjustments may be covered by a Service Agreement.

5. TRACEABILITY
The Test Weights used are traceable to National Standards of Mass. The appropriate certificates for the Test Weights used will be quoted on the Certificate. Traceability implies that there is an unbroken chain back to National Physical Laboratory Standards of Mass. For Avoir (Imperial) machines, these may be calibrated with metric weights assuming a conversion factor of 1lb. = 453.59237g.

6. MEASUREMENTS TAKEN
(1) Unless otherwise agreed, pre-determined measurement points will be selected, normally, these will be a reading at zero and four to ten other readings in the equipment's range. In the case of equipment with a capacity in excess of 250kg, or with restricted platform sizes it may be necessary to use 'make-up' weights. This does not affect the validity of the test. Where possible weighbridges will be tested up to the maximum gross vehicle weight allowed under current legislation (without dispensation).
(2) Off Centre loading (if applicable): Up to four readings will be taken, normally at about one quarter to half of the instruments capacity, at various off centre points. For machines which weigh rolling loads (e.g. overhead track scales and weighbridges) the test may be carried out by placing the load at the beginning, middle and end of the load receptor.
(3) Repeatability: Three readings (at the same test point) will be taken normally at a load value of 25% or more of the instruments capacity.
Note! 'Make up' loads may in some cases be used for Off Centre loading and Repeatability tests and this will not affect the validity of the results.
(4) Avery Weigh-Tronix standard calibration service is carried out in line with internal procedures relevant to the instrument and complies with the UK Weighing Federation Calibration Code of Practice.

7. ENVIRONMENT
Unless otherwise specified, the Calibration Service will be carried out on the equipment in its normal location and in the environment as found.

8. CARTAGE OF TEST WEIGHTS
For all tests of machines having a capacity in excess of 750kg, the customer is responsible for the cartage of test weights from and to Avery Weigh-Tronix premises. Unless otherwise specified, for road weighbridges being calibrated to a capacity in excess of 10,000kg the Calibration Service includes the provision of a Weighbridge Test Unit.

9. UNSKILLED LABOUR AND LIFTING EQUIPMENT
The customer is responsible for supplying unskilled labour, lifting and handling equipment for the movement of Test Weights on site.

10. HANDLING OF TEST WEIGHTS
The customer is responsible for any damage caused to Test Weights whilst they are on the customer's premises (or being transported by the customer), except to the extent that such damage arises from the negligence of an employee of Avery Weigh-Tronix or its sub-contractor or agent.

11. ACCURACY
The certificate issued under this service is based on readings taken at a particular point of time and a particular location. It does not guarantee the accuracy of the equipment in the future. The interpretation of the results declared is the responsibility of the customer having regard to the nature of the machine use.

12. UKAS CERTIFICATES
Should a customer require a calibration service, which complies with the requirements of UKAS / ISO17025, this can be arranged; however this will be on a specific UKAS contract with different terms, conditions and documentation.

13. EQUIPMENT OUTSIDE THE TOLERANCE
If a calibration is carried out, a certificate may still be issued even if a machine is outside of the prescribed tolerance (ref point 11).

14. NOTIFICATION PROCEDURE
To comply with the relevant Weights and Measures Regulations it is a legal requirement that users of weighing equipment notify their Local Trading Standards Department when a major adjustment or component change is made which could affect the metrological performance of the machine.

15. MEASUREMENT UNCERTAINTY
Where there is zero error shown for repeatability, Measurement Uncertainty can normally be considered to be within approximately +/- one scale division or where the resolution is $\leq$ 0.0001g approximately +/- six scale divisions. Should a calculation for Measurement Uncertainty be required this would only be supplied with a UKAS calibration contract.

16. TERMS AND CONDITIONS
Where calibration work is carried out as part of a Service Agreement Avery Weigh-Tronix's Service Agreement Terms and Conditions shall apply. Where calibration work is carried out as an addition to a Service Agreement or in the absence of a Service Agreement then Avery Weigh-Tronix's General Terms and Conditions shall apply. Copies of the applicable terms have been made available to customer and further copies are available upon request.