



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Memphis Scale Works, Inc.
3418 Cazassa Rd.
Memphis, TN 38116
(and satellite locations as shown on the scope)

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

CALIBRATION

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

A handwritten signature in black ink, appearing to read 'R. Douglas Leonard Jr.', is positioned above a horizontal line.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 17 August 2024
Certificate Number: AC-1132



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory
quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Memphis Scale Works, Inc.
3418 Cazassa Rd., Memphis, TN 38116
Kelly Michie
901-332-5070 Ext. 102

Memphis Scale Works, Inc.
3212 Herb Street
Jonesboro, AR 72401

Memphis Scale Works, Inc.
314 Lake Lane, Little Rock, AR 72117

**Memphis Scale Works, Inc., dba
American Weighing Systems**
4831 Bryant Rd, Buford, GA 30518

**Memphis Scale Works, Inc., dba
Ohio Scale Systems**
4600 Middle Drive, Youngstown, OH 44505

**Memphis Scale Works, Inc., dba
Alabama Scale Systems**
2401 Pawnee Village Road, Birmingham, AL 35217

Memphis Scale Works, Inc.
2000 Creekview, Fayetteville, AR 72704

CALIBRATION

Valid to: **August 17, 2024**

Certificate Number: **AC-1132**

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Low Range Balances ¹ (0.001 g resolution) (0.005 g resolution)	Up to 300 g Up to 1 200 g	2.0 mg 11 mg	Class 1 Weights
Low Range Balances ¹ (0.001 g resolution) (0.005 g resolution)	Up to 300 g Up to 1 200 g	2.2 mg 11 mg	Class 2 Weights
Lab Balance ¹ (0.001 g resolution) (0.005 g resolution)	Up to 300 g Up to 1 200 g	4.8 mg 12 mg	Class 3 Weights
Small Range Balance ¹ (0.01 g resolution) (0.05 g resolution)	Up to 300 g Up to 1 200 g	0.073 g 0.19 g	Class F Weights
Medium Range Balances ¹ (0.1 g resolution) (0.5 g resolution)	Up to 3 kg Up to 5 kg	0.41 g 0.91 g	Class F Weights
High Range Balances ¹ (1 g resolution) (2 g resolution) (5 g resolution) (0.1 kg resolution) (0.2 kg resolution) (0.5 kg resolution) (1 kg resolution)	Up to 10 kg Up to 20 kg Up to 50 kg Up to 500 kg Up to 1 000 kg Up to 5 000 kg Up to 10 000 kg	1.9 g 3.7 g 9.1 g 0.14 kg 0.29 kg 0.66 kg 1.4 kg	Class F Weights
Bench Scales ¹ (0.01 lb resolution) (0.05lb resolution)	Up to 50 lb Up to 100 lb	0.015 lb 0.066 lb	Class F Weights
Low Range Scales ¹ (0.1 lb resolution) (0.2 lb resolution)	Up to 500 lb Up to 2 000 lb	0.15 lb 0.27 lb	Class F Weights
Floor Scales ¹ (0.2 lb resolution) (0.5 lb resolution) (1 lb resolution) (2 lb resolution) (5 lb resolution)	Up to 2 000 lb Up to 5 000 lb Up to 10 000 lb Up to 20 000 lb Up to 40 000 lb	0.27 lb 0.70 lb 1.6 lb 3.1 lb 7.0 lb	Class F Weights

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Hopper/Tank Scales ¹ (1 lb resolution) (2 lb resolution) (5 lb resolution)	Up to 5 000 lb Up to 15 000 lb Up to 30 000 lb	1.9 lb 4.4 lb 8.7 lb	Class F Weights
Crane Scales ¹ (1 lb resolution) (2 lb resolution) (5 lb resolution) (10 lb resolution) (20 lb resolution) (50 lb resolution) (100 lb resolution)	Up to 2 000 lb Up to 5 000 lb Up to 10 000 lb Up to 50 000 lb Up to 70 000 lb Up to 100 000 lb Up to 200 000 lb	1.4 lb 2.7 lb 6.6 lb 14 lb 27 lb 65 lb 130 lb	Class F Weights
Vehicle Scales ¹ (10 lb resolution) (20 lb resolution)	Up to 100 000 lb Up to 200 000 lb	14 lb 29 lb	Class F Weights
Vehicle Scales ¹ With test Cart (10 lb resolution) (20 lb resolution)	Up to 100 000 lb Up to 200 000 lb	14 lb 27 lb	Class F Weights

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 ($k=2$), corresponding to a confidence level of approximately 95%.

Notes:

1. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope.
2. Numbers in parenthesis represent balance or scale resolution.
3. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-1132.



R. Douglas Leonard Jr., VP, PILR SBU