National Conference on Weights and Measures
15245 Shady Grove Road, Suite 130 • Rockville, MD 20850

National Type Evaluation Program
Certificate of Conformance for Weighing and Measuring Devices

For:
Non-Computing Scale, Counter/Bench,
Digital Electronic, Remote Base Only
Model Families: 78XX and 373XLP Series
Trademark Names: Avery Weigh-Tronix;
Weigh-Tronix, Inc.; NCI or
Avery Berkel
n_{max}: See Table on Page 2
Accuracy Class: III

Submitted by:
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Standard Features and Options

Semi-automatic (push-button) zero setting mechanism
Automatic zero setting mechanism (AZSM)
AC/DC voltage adapter
Initial zero setting mechanism (IZSM)
Liquid crystal display (LCD)
RS-232 communications

Load cell type: Weigh-Tronix MK-XXVII (Certificate of Conformance Number 99-015), Model MK 28 (Certificate of Conformance Number 02-097) or any NTEP certified and compatible load cell.

Models 3730T-5, 3730TC-5-XX, 3730LP-XX, 3732LP-XXX, 3734LP-XXX, and 3734LPC-XXX-XXX are complete normal rounding scales (lb, oz, kg or g unit selection).
Models 7844, 7885, 7835, and 7835C-XX-XXX are complete weight classifiers (lb or kg unit selection).
Models 3731LP-XXX, 3733LP-XXX, 3735LP-XXX, and 3735LPC-XXX-XXX are weighing elements only and are mechanically identical to the above models without an A/D converter and indicator. The load cell will have a non-terminated 10-ft cable to interface to an approved and compatible weight indicator.

Options: Models 3709 and 7809 remote customer indicator
Models 3708 and 7808 remote primary indicator (n_{max} 10 000)
Print capability (standard feature on 373XLP Series)
External unit selection (standard feature on 373XLP Series)
Semi-automatic tare (push-button) mechanism
12 VDC battery operation

Temperature Range: 5 °C to 40 °C (41 °F to 104 °F)

This device was evaluated under the National Type Evaluation Program (NTEP) and was found to comply with the applicable technical requirements of Handbook 44, "Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Dennis E. Ehrhart
Chairman, NCWM, Inc.

Ross J. Andersen
Chairman, National Type Evaluation Program Committee

Issued Date: June 11, 2004

Avery Weigh-Tronix
Non-Computing, Counter/Bench
Model Families: 78XX and 373XLP

Application: The 373XLP Series are intended for general purpose weighing and the 78XX Series are intended for shipping applications.

Identification: The identification information is located on the right side of the scale and is made of a pressure sensitive material that indicates the word "VOID" if removed. All models are identified as Avery Weigh-Tronix (or a Division of Avery Weigh-Tronix or a Division of Weigh-Tronix, Inc.) on the serial marking plate. Some models like the 78XX Series will have the trademark or logo name NCI or Avery Berkel listed as well.

Model Designations:

Models		Platform Size	Capacity (lb)	Capacity (kg)	n_{max}
3730LP-5 3730T-5**		10" x 10"	10 x 0.002	5 x 0.001	5000
3730TC-5-XXX**		10" x 10"	10 x 0.002	5 x 0.001	5000
3730LP-15		10" x 10"	25 x 0.005	10 x 0.002	5000
3730LP-30*		10" x 10"	50 x 0.01	25 x 0.005	5000
3732LP-50	7844-50	14" x 14"	100 x 0.02	50 x 0.01	5000
3732LP-75	7844-75	14" x 14"	150 x 0.05	75 x 0.02	3750
3732LP-125	7844-125	14" x 14"	250 x 0.05	100 x 0.02	5000
3734LP-50	7885-50	18" x 18"	100 x 0.02	50 x 0.01	5000
3734LP-75	7885-75	18" x 18"	150 x 0.05	75 x 0.02	3750
3734LP-125	7885-125	18" x 18"	250 x 0.05	100 x 0.02	5000
3734LP-150	7885-150	18" x 18"	300 x 0.1	150 x 0.05	3000
	7835-50	20" x 20"	100 x 0.02	50 x 0.01	5000
	7835-75	20" x 20"	150 x 0.05	75 x 0.02	3750
	7835-125	20" x 20"	250 x 0.05	100 x 0.02	5000
	7835-150	20" x 20"	300 x 0.1	150 x 0.05	3000
3734LPC-50-XXX	7835C-50-XXX	20" x 20"	100 x 0.02	50 x 0.01	5000
3734LPC-75-XXX	7835C-75-XXX	20" x 20"	150 x 0.05	75 x 0.02	3750
3734LPC-125-XXX	7835C-125-XXX	20" x 20"	250 x 0.05	100 x 0.02	5000
3734LPC-150-XXX	7835C-150-XXX	20" x 20"	300 x 0.1	150 x 0.05	3000
Base Only	3733LP-50	14" x 14"	100 x 0.02	50 x 0.01	5000
Base Only	3733LP-75	14" x 14"	150 x 0.05	75 x 0.02	3750
Base Only	3733LP-125	14" x 14"	250 x 0.05	100 x 0.02	5000
Base Only	3735LP-50	18" x 18"	100 x 0.02	50 x 0.01	5000
Base Only	3735LP-75	18" x 18"	150 x 0.05	75 x 0.02	3750
Base Only	3735LP-125	18" x 18"	250 x 0.05	100 x 0.02	5000
Base Only	3735LP-150	18" x 18"	300 x 0.1	150 x 0.05	3000
Base Only	3735LPC-50-XXX	20" x 20"	100 x 0.02	50 x 0.01	5000
Base Only	3735LPC-75-XXX	20" x 20"	150 x 0.05	75 x 0.02	3750
Base Only	3735LPC-125-XXX	20" x 20"	250 x 0.05	100 x 0.02	5000
Base Only	3735LPC-150-XXX	20" x 20"	300 x 0.1	150 x 0.05	3000
Base Only	3731LP-5	10" x 10"	10 x 0.002	5 x 0.001	5000
Base Only	3731LP-15	10" x 10"	25 x 0.005	10 x 0.002	5000
Base Only	3731LP-30	10" x 10"	50 x 0.01	25 x 0.005	5000

* Model submitted for testing.
** Models previously listed on Certificate of Conformance Number 95-070A5 as 3731T or TC.
Where "XXX" denotes non-standard sizes with platform area (length x width) not to exceed the platform size listed for that model.

Avery Weigh-Tronix
Non-Computing, Counter/Bench
Model Families: 78XX and 373XLP

Sealing: The calibration and configuration switches are located on the bottom of the scale. The access hole can be secured with a cover plate and a wire seal threaded through a hole in the plate and the head of the attaching screw or with a pressure sensitive security seal over an access hole plug. The remote customer and primary indicators have no metrological features that require the use of a security seal.

Test Conditions: This Certificate supersedes Certificate of Conformance Number 02-069A1 and is issued to make a correction to the Standard Features and Options section of the certificate. No additional testing was required. Previous test conditions are listed below as reference.

Certificate of Conformance Number 02-069A1: This certificate supersedes Certificate of Conformance Number 02-069 and is issued to include additional models and platform sizes. Changes to this certificate are as follows: Models 3730LP-5, 3730LP-15, 3730LP-30 (with 10" x 10" platform), 3731LP-XX (5, 15 ,30), 3732LP-XX, and 3733LP-XX Series were added; and Models 3731LP-XX (50, 75, 125) were removed. Additionally, Model 3730LP-30 (50 lb capacity) scale was submitted for evaluation. The emphasis of the evaluation was on device design, compliance with influence factor requirements, and permanence test results. The scale was tested over a temperature range of 5 °C to 40 °C. A load of approximately one-half scale capacity was applied to each scale over 100 000 times. Increasing/decreasing load and shift tests were conducted periodically during this time. Previous test conditions are listed below for reference.

Certificate of Conformance Number 02-069: The Models 3734LPC50-XXX, 3734LPC150-XXX, and 7835C 75-XXX were submitted for evaluation. The emphasis of the evaluation was on the device design, compliance with influence factor requirements, and permanence. The scales were tested over a temperature range of 5 °C to 40 °C. Tests were conducted with line power of 100 VAC and 130 VAC. A load of approximately one-half scale capacity was applied to each scale over 100 000 times. Increasing/decreasing load and shift tests were conducted periodically during this time. Additionally, the output was evaluated for motion detection and other error indications such as overcapacity, below zero, and power interruptions.

Evaluated By: K. Jones (CA), Sam Boyd (CA) 02-069, 02-069A1

Type Evaluation Criteria Used: NIST Handbook 44, 2004 Edition, NCWM Publication 14, 2004 Edition

Conclusion: The results of the evaluations and information provided by the manufacturer indicate the devices comply with applicable requirements.

Information Reviewed By: S. Patoray (NCWM) 02-069, 02-069A1, 02-069A2; L. Bernetich (NCWM) 02-069A1, 02-069A2