

State of California
Department of Food and Agriculture
Division of Measurement Standards

Certificate Number: 5295-02

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California Type Evaluation Program
Certificate of Approval
for Weighing Devices

For:

Bench Scale, Digital Electronic, Remote Base Only
Model Families: 7844, 7835, 7835C, 7885, 3731LP,
3735LP, 3735LPC, 3734LP,
And 3734LPC

Trademark Name: NCI
 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
Semi-automatic tare mechanism (373XLP series)
Initial and automatic zero setting mechanism
Liquid crystal display (LCD)
Internal or external unit selection (lb/kg)
RS-232 communications
AC/DC adapter

Load cell type: Weigh-Tronix MK-28

Models 3734LP-XXX and 3734LPC-XXX-XXX are complete normal rounding scales

Models 7844, 7885, 7835, and 7835C-XXX are complete weight classifiers

Models 3731LP-XXX, 3735LP-XXX, and 3735LPC-XXX-XXX are base only and are mechanically identical to the above models without 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)

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

This device was evaluated under the California Type Evaluation Program (CTEP) and was found to comply with the applicable requirements of California Code of Regulations for "Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: March 29, 2002

Mike Cleary, Director

Weigh-Tronix, Inc.
Bench Scale

Model Families: 7844, 7835, 7835C, 7885, 3731LP, 3735LP, 3735LPC, 3734LP, and 3734LPC

Application: The Models 373X are intended for general purpose weighing and the Models 78XX 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.

Model Designations:

Models		Platform Size	Capacity (lb)	Capacity	n _{max}
3730LP-50	7844-50	14" x 14"	100 x 0.02	50 kg x 10 g	5000
3730LP-75	7844-75	14" x 14"	150 x 0.05	75 kg x 20 g	3750
3730LP-125	7844-125	14" x 14"	250 x 0.05	100 kg x 20 g	5000
3734LP-50	7885-50	18" x 18"	100 x 0.02	50 kg x 10 g	5000
3734LP-75	7885-75	18" x 18"	150 x 0.05	75 kg x 20 g	3750
3734LP-125	7885-125	18" x 18"	250 x 0.05	100 kg x 20 g	5000
3734LP-150	7885-150	18" x 18"	300 x 0.1	150 kg x 50 g	3000
	7835-50	20" x 20"	100 x 0.02	50 kg x 10 g	5000
	7835-75	20" x 20"	150 x 0.05	75 kg x 20 g	3750
	7835-125	20" x 20"	250 x 0.05	100 kg x 20 g	5000
	7835-150	20" x 20"	300 x 0.1	150 kg x 50 g	3000
3734LPC-50-XXX	7835C-50-XXX	400 sq in	100 x 0.02	50 kg x 10 g	5000
3734LPC-75-XXX	7835C-75-XXX	400 sq in	150 x 0.05	75 kg x 20 g	3750
3734LPC-125-XXX	7835C-125-XXX	400 sq in	250 x 0.05	100 kg x 20 g	5000
3734LPC-150-XXX	7835C-150-XXX	400 sq in	300 x 0.1	150 kg x 50 g	3000
Base Only	3731LP-50	14" x 14"	100 x 0.02	50 kg x 10 g	5000
Base Only	3731LP-75	14" x 14"	150 x 0.05	75 kg x 20 g	3750
Base Only	3731LP-125	14" x 14"	250 x 0.05	100 kg x 20 g	5000
Base Only	3735LP-50	18" x 18"	100 x 0.02	50 kg x 10 g	5000
Base Only	3735LP-75	18" x 18"	150 x 0.05	75 kg x 20 g	3750
Base Only	3735LP-125	18" x 18"	250 x 0.05	100 kg x 20 g	5000
Base Only	3735LP-150	18" x 18"	300 x 0.1	150 kg x 50 g	3000
Base Only	3735LPC-50-XXX	400 sq in	100 x 0.02	50 kg x 10 g	5000
Base Only	3735LPC-75-XXX	400 sq in	150 x 0.05	75 kg x 20 g	3750
Base Only	3735LPC-125-XXX	400 sq in	250 x 0.05	100 kg x 20 g	5000
Base Only	3735LPC-150-XXX	400 sq in	300 x 0.1	150 kg x 50 g	3000

Sealing: The calibration and configuration switches are located under 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: 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.

Results of the evaluation indicate the devices comply with applicable requirements.

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2002 Edition

Tested By: K. Jones (CA)