

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

Certificate Number: 4490(b)-01  
 Page 1 of 3

***California Type Evaluation Program***  
***Certificate of Approval***  
***for Weighing Devices***

**For:**  
 Computing Scale  
 Digital Electronic  
 Models: SL-9000-30X, SL-9000-30X-N Series  
 OP-9000-R, OP-9000-30X-N, & H-9000N  
 $n_{max}$ : 3000  
 Capacity: 30 lb x 0.01 lb (Single Interval) or 0 to 15 x  
 0.005 lb/15 to 30 lb x 0.01 lb (Multi-interval)  
 Platform: 9.5" x 13.75"

**Submitted by:**  
 TEC America Inc.  
 4401-A Bankers Circle  
 Atlanta, GA 30360  
 Tel: (770) 449-3040  
 Fax: (770) 453-0866  
 Contact: Thomas L. Morrow

**Standard Features and Options**

SL-9000-XX	X	-XX	X	-XX	-X
Capacity	Range	Display Type	Keyboard	Country	Blank: Computing scale R: Remote indicating element for the OP-9000-R remote weighing element
30: 30 lb	L: Single range M: Multi-interval	FF: Full dot matrix LS: 7-segment liquid crystal ES: *	B: Built-in R: Remote	US	

\* The ES is the same as LS except for limited memory and no scale-to-scale communications.

"N" in Models SL-9000-30X-N and H-9000N indicate that the Ethernet communications option is installed.

Single weighing range or automatic multi-interval Semi-automatic and keyboard tare Semi-automatic (push-button) zero 1/4 lb and 1/2 lb multiplier keys (may be disabled) Ethernet communications option Integral label printer with bar code (UPC) and nutrition information print capability Product code look-up (PLU) with tare and programmable commodity speed keys (70 x 2)  Load cell type: TEC LC E28-15SA (used in standard and remote weighing elements)  Temperature Range: 0 °C to 40 °C (32 °F to 104 °F)	Scrolling customer message Automatic zero setting mechanism (AZSM) Unit price and tare save keys Remote weighing element Models OP-9000-R and OP-9000-30X-N
--	--

This device was evaluated under the California Type Evaluation Program (CTEP) and was found to comply with the applicable technical 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: January 26, 2001

\_\_\_\_\_  
 Mike Cleary, Director

**TEC America Inc.**  
**Computing Scale**  
**Models: SL-9000-30X, SL-9000-30X-N Series, OP-9000-R, OP-9000-30X-N and H-9000N**

**Application:** For direct sale and prepack application in delicatessens and supermarkets. Labels on prepackaged items must conform to requirements adopted under the Fair Packaging and Labeling Act. Models with remote weighing elements have the suffix "R" and must be marked "For Prepackaging Use Only" or a similar statement.

**Identification:** The identification plate is riveted to the base on the operator's side of the scale. The remote weighing element has an identification plate on the left side of the base.

**Sealing:** The complete scale requires two wire security seals. One seal can be threaded through two sealing tabs under the platter to prevent undetected access. A second seal can be threaded through two sealing screws on the left side of the base to prevent undetected access to the calibration mode switch.

Units with remote weighing elements require one wire security seal at the center rear of the OP-9000-R base to prevent undetected access to the load cell.

**Operation:** The FF version scales can be programmed to display scrolling messages when the scale is not in use. The weight display is not visible when the scrolling message is on. To define the zero indication, the statement "Scrolling message indicates scale at zero" is marked on upper right of the display.

The scale may be set-up with a single weight range (30 lb x 0.01 lb) or with automatic multi-interval ranges (0-15 lb x 0.005 lb and 15-30 lb x 0.01 lb). Tares are taken to the internal resolution of the scale. The scale rounds the net weight to the appropriate displayed division that meets the requirements that gross – tare = net.

To change a scale from multi-interval (standard version) to a single weight range version, the security seal must be broken and the scale's programming changed. When this is done, the model number and capacity by division size markings must be changed on the ID plate and on (next to) the weight display. This is done by affixing a permanent decal over the existing markings.

**Test Conditions:** This certificate supersedes Certificate of Approval Number 4490(a)-97 and is issued to add the Model H-9000N and an Ethernet communications board option. In addition, it is issued to change the model number for the remote weighing element and to correct errors in the Sealing and Operation sections.

The Model H-9000N is the printer and indicator assembly of the SL-9000-30X without a weighing element, designed for bakery use. It was tested for printing functions and label information. It is compatible for use with the OP-9000-R and the new OP-9000-30X-N weighing elements.

Ethernet communication is used by computers with most point-of-sale systems for price and PLU file maintenance. The addition of the Ethernet communications board has no effect on any metrological features. All devices manufactured with the Ethernet communications board will have the letter "N" added to the model number as shown under Standard Features and Options.

The model number of the remote weighing element will change from OP-9000-R to OP-9000-30X-N. They are identical and interchangeable.

Two errors have been corrected. In the Sealing section, the end of the last sentence has been changed from "calibration mode switch" to "load cell". In the Operation section, the beginning of the first sentence has been changed from "The LS and ES version" to "The FF version".

**TEC America Inc.**  
**Computing Scale**  
**Models: SL-9000-30X, SL-9000-30X-N Series, OP-9000-R, OP-9000-30X-N and H-9000N**

**Test Conditions:** (Continued)

**Certificate of Approval Number 4490(a)-97:** This certificate superseded Certificate of Approval Number 4490-96 and was issued to add four different types of scale configurations to the basic Model SL-9000-30. The new models contain the same electronics, load cell, and load cell support structure as previously tested in the Model SL-9000-30M-FFB-US. The series is offered as a single weight range or a multi-interval version with a 7-segment liquid crystal display or a full dot matrix display. The liquid crystal display versions are also available with the remote indicating element. An additional model has been added which has the keyboard and display mounted on a pedestal above the weighing element.

The Model SL-9000-30X-XXX-US-R (remote indicating element) has had the weighing structure removed. The Model OP-9000-R contains only the weighing structure and the platter. The remote indicating and weighing elements must be marked "For Prepackaging Use Only."

**Certificate of Approval Number 4490-96:** The emphasis of the evaluation was on device design, performance, print format, and compliance with influence factor requirements. The device was tested over a temperature range of 0 °C to 40 °C (32 °F to 104 °F). A load of approximately one-half scale capacity was applied to the scale 105 355 times. The scale was tested periodically during this time. Additionally, tests were conducted using 100 VAC and 130 VAC.

Results of the evaluations and information provided by the manufacturer indicate the devices comply with applicable requirements.

**Type Evaluation Criteria Used:** Title 4, California Code of Regulations, 2001 Edition

**Tested By:** Bill Fishman (NY) and Ed Szesnat (NY) (95-033); Bill Fishman (NY) (95-033A1); Ken Jones (CA) (95-033A2)