

California Type Evaluation Program
Certificate of Approval
for Weighing Devices

For:

Price Computing Scale
Digital Electronic
Models: SG and SF Series
Capacity: 6 kg to 30 kg (15 lb to 60 lb) (See Below)
 n_{max} : 3000
Platform: 300 mm x 280 mm (12" x 11")

Accuracy Class: III

Submitted by:

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Standard Features and Options

Initial zero setting mechanism (IZSM)

Gross/net weight display

Semi-automatic tare (push-button)

Battery power supply

Model SF Series comes with a tower customer display

Model SG Series comes with a built-in operator and customer display

Automatic zero setting mechanism (AZSM)

Semi-automatic zero setting mechanism (push-button)

RS-232 communication port

AC to DC power adapter

Models*	Capacities	
SF-6 or SG-6	15 lb x 0.005 lb	6 kg x 0.002 kg
SF-15 or SG-15	30 lb x 0.01 lb	15 kg x 0.005 kg
SF-30 or SG-30	60 lb x 0.02 lb	30 kg x 0.01 kg

* Suffix descriptions:

Model SF Series: KA - Vacuum fluorescent display with AC hard wired

KB - Liquid crystal display with AC adapter

KC - Vacuum fluorescent display with AC adapter

Model SG Series: KA - Liquid crystal display with AC adapter

Load cell: A & D Model SF/SG (30 kg capacity)

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: July 23, 1999


Barbara J. Bloch, Director

A & D Engineering, Inc.
Price Computing Scale
Models: SG and SF Series

Application: For use in direct sales, price computing, or general purpose weighing.

Identification: A metal identification tag is attached on the right side of scale.

Sealing: A pressure sensitive security seal can be applied over the plate located on the bottom of the scale. The plate is used to cover access to the calibration switch.

Test Conditions: The Models SF-30 KA and SF-6 KB price computing scales were submitted for evaluation. The emphasis of the evaluation was on the device design, operation, performance, and marking requirements. Each device was tested for width of zero, center of zero, discrimination, and zone of uncertainty tests. Several increasing/decreasing load and shift tests were conducted. Additionally, the devices were tested over a voltage range of 100 VAC to 130 VAC and 10.9 VDC and 12 VDC. Influence factor tests were conducted on each scale over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). A load of one-half capacity was applied to the scales over 100 000 times. The devices were tested periodically during this time.

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

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 1999 Edition

Tested By: S. Chan (CA)