

California Type Evaluation Program
Certificate of Approval
for Weighing Devices

For:

Axle-Load Weighing/Load Receiving Element
Load Cell Electronic
Model: CA1-50K
 n_{\max} : 3000 e_{\min} : 20 lb
Capacity: 60 000 lb
Platform: See Below
CLC: 40 000 lb

Accuracy Class: III L

Submitted by:

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Standard Features and Options

Installations must satisfy the relationship of $v_{\min} \# d/\%N$ (d = the division size and N = number of load cells) and nominal capacity $\# CLC \times (N-0.5)$, where N is the number of sections in the scale.

Scale length: 12 ft
Scale width: 12 ft
Platform area for two section (four cells) scale: 144 sq ft

Scale type: Pit installation, concrete deck

Load cell: Weigh-Tronix, Model WBM-50.0K (Certificate of Approval Number 3131-89)

Load cell capacity: 50 000 lb

Temperature Range: -10 EC to 40 EC (14 EF to 104 EF)

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: February 23, 2000

Barbara J. Bloch, Director

**PAT Traffic Controls Corporation
Axle-Load Weighing/Load Receiving Element
Model: CA1-50K**

Application: General purpose axle-load scale.

Identification: The identification tag is attached to the load cell junction box cover.

Sealing: The load cell junction box is located in the scale pit. Access to the load cell junction box may be sealed with a wire security seal threaded through two drilled head screws. Additionally, the overall calibration can be sealed at the indicator in accordance with the sealing provisions described for the compatible, approved indicator.

Test Conditions: The Model CA1-50K (60 000 lb x 20 lb, 12' x 12') two section scale with a concrete deck and a 40 000 lb CLC was submitted for testing. The emphasis of the evaluation was on device design, performance, and permanence. The scale was interfaced to a Weigh-Tronix, Model WI-130, digital indicating element (Certificate of Approval Number 4560-97). Increasing/decreasing load, mid-span, and section tests were conducted with 33 000 lb of known test weights. Strain load tests were conducted to 48 120 lb using 33 000 lb of known test weights. The scale was used for approximately 30 days and retested in the same manner.

The results of the evaluation indicate the device complies with applicable requirements.

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2000 Edition

Tested By: Gary Castro (CA)