

California Type Evaluation Program
Certificate of Approval
for Weighing Devices

For:

Hopper Scale Retro-Fit Kit and Hopper Scale
Load Cell Electronic
Model: AS Series (See Table Below)
 n_{max} : 1000
Capacity: See Table Below

Accuracy Class: III L

Submitted by:

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Standard Features and Options

Retro-Fit Kit Series			
Model Number	Capacity (lb)	Load Cell Capacity (lb)	Number of Cells
AS33K	3000	2000	3
AS35K	5000	2500	3
AS310K	10 000	5000	3
AS45K	5000	2500	4
AS410K	10 000	5000	4
AS420K	20 000	10 000	4
AS440K	40 000	20 000	4
Hopper Scale			
AS340K	40 000	20 000	3

The gross capacity of the scale cannot exceed the summed capacity of the load cells minus the weight of the hopper or the capacity of the original scale, whichever is less.

Load Cell Type: Artech, Model 20210 Series, California Certificate of Approval Number 3198(b)-90 or certified equivalent.

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 1, 2000

Barbara J. Bloch, Director

Allstar Scale Service Corporation
Load Cell, Electronic
Hopper Scale Retro-Fit Kit and Hopper Scale
Model: AS Series

Application: Construction material hopper scale for use with compatible and certified indicating elements. The retro-fit kit is designed to replace mechanical hopper scale levers. The capacity of the retro-fit scale cannot be greater than the original scale.

Identification: An identification plate is permanently mounted on the side of each hopper.

Sealing: The load cell junction box may be sealed with a wire security seal. Additionally, the overall calibration can be sealed at the indicating element.

Operation: The retro-fit kit consists of mounting hardware and digital electronic load cells that replace mechanical levers on a hopper scale. The mounting hardware (steelyard rods) suspends the scale with three or four (depending on the model) digital electronic load cells in a level position. The Model AS340K is not a retro-fit kit and the hopper is suspended by three load cells. The weighing element is then interfaced to a compatible digital weight indicator.

Test Conditions: This certificate supersedes Certificate of Approval Number 4776-98 and is issued to include the Model AS340K hopper scale and to include the test conditions for the Model AS33K retro-fit kit. These were inadvertently omitted on the original certificate. The current and original test conditions are repeated below for reference.

Certificate of Approval Number 4776(a)-00: The Model AS340K, 40 000 lb capacity, hopper scale was submitted for evaluation. The emphasis of the evaluation was on the performance of the hopper scale including motion detection. The hopper scale was tested to 33 000 lb with 13 000 lb of known test weights and 20 000 lb of material. The scale was used for approximately 40 days and retested.

Certificate of Approval Number 4776-98: The emphasis of the evaluation was on the hopper scale retro-fit kit performance including motion detection. A 20 000 lb capacity scale was tested to capacity with 10 000 lb of known test weights and 10 000 lb of material. A 3000 lb capacity scale was also tested using 3000 lb of known test weights. The scales were in use for approximately 45 days and retested.

The results of the evaluations indicate the devices comply with applicable requirements.

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

Tested By: G. Castro and J. Delperdang (CA) (4776-98)

Update Tested By: G. Castro and D. Parks (CA) (4776(a)-00)