

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

Certificate Number: 5588-09

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

**For:**

Scale System Controller  
Concrete Batching  
Model: Scorpion  
Version: 3.0

**Submitted by:**

Automatic Control Electronics (ACE-CO)  
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**Standard Features and Options**

Primary weight indications and motion detection are provided by the compatible and certified indicating element

Weighmaster ticket printing system  
Vehicle, customer, and product ID  
Multiple scale interface with scale identification  
Water meter interface

Minimum system requirements: Computer and monitor  
Alphanumeric keyboard  
Printer and mouse  
ACE-CO Scorpion Batch Panel

Operating system: Windows 2000  
Programming language: VB, VB.NET, C, C++  
Processor: 2.0 GHz, 256 MB RAM

**Note:** The user of this system is responsible for correct weighmaster certificate content and compliance with applicable weighmaster laws.

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: February 19, 2009

Edmund E. Williams, Director

**Automatic Control Electronics (ACE-CO)  
Scale System Controller  
Model: Scorpion  
Version: 3.0**

**Application:** Scale system controller for use with certified and compatible weighing, water metering, and indicating elements.

**Identification:** Identification information is continually displayed on the title bar of the operation screen.

**Sealing:** The system requires no provision for sealing and is protected by a code retained by the manufacturer. Sealing of metrological parameters is provided by the certified and compatible indicating, weighing, and metering elements.

**Operation:** The batching sequence is initiated by the operator and proceeds automatically until each of the hopper scales reaches its preset weight and the preset amount of water is metered. The weights and water meter output are monitored and displayed on the batch controller's computer screen. When batching is complete a Weighmaster ticket is printed.

**Test Conditions:** The ACE-CO Model Scorpion Version 3.0 scale system controller was interfaced with two Cardinal Model 205 indicating elements (Certificate of Approval Number 5258-01) and associated batch plant equipment. For purposes of testing the controller, the accuracy of the water meter was verified by conversion of the weight of the water metered. The emphasis of the evaluation was on operation, marking, printing format, and interaction with the digital weight indicators and water meter.

**Type Evaluation Criteria Used:** Title 4, California Code of Regulations, 2008 Edition

**Evaluated By:** K. Jones (CA)

**Scorpion Batching Screen ACE-CO MOD: Scorpion VER: 3.024 SNXXXXX**

File Discharge Function View Action Help

Pending Loads:

Control No.	Load Time	Job Name	Job ID	Truck	Mix

Load Info:

Job ID: [ ] Mix ID: 3500345 [Start] [Ticket]

Mix Description: 3000 COMMERCIAL [RET'D] [CU YD: 0.000] [Delete]

Quantity: 3.000 CU YD [X (Push)]

Truck/Driver: / [BATCH 1 OF 1] [Message]

Water Adj: 0.0 Gal/Cu Yd [TTL: 3.000cuyd]

Description	Adj or Moisture	Bin	Material	Status	Target	Actual	Unit	Tol
Current Batch				Control No. 000002 Batch 1				
SAND	0.00	AGA3	2	Finished	3920	3960	LB	HT
1/2" ROCK	0.00	AGA2	1	Finished	5440	5480	LB	
CEMENT	0.00	CMA1	11	Finished	1580	1580	LB	
WATER REDUCE	100.00	ADA1	21	Finished	20	20	OZ	T
WELL WATER	0.00	WTA2	32		80	00	GAL	

AGGA 9440 LB CMTA 1580 LB WTRA 2 00 GAL

WEIGH FINISHED 8/29/2008 1:39 PM