

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

Certificate Number: 5108(a)-02
Page 1 of 2

California Type Evaluation Program
Certificate of Approval
for Weighing Devices

For:

Portable Axle-Load Weighing Element/Indicating Element, Digital Electronic
Models: AX900 (Weighing Element*)
PT 20 (Indicating Element)
 n_{max} : 1200 Division: 50 lb
Capacity: 30 000 lb (Single Weighing Element)
60 000 lb (Two or More Weighing Elements)
Platforms: 7' x 32", 5.5' x 32", and 3.5' x 32"
Weighing Element Class III/Indicator Class III

Submitted by:

Intercomp Corporation
14465 23rd Avenue North
Minneapolis, MN 55447-3438
Tel: (763) 476-2531
Fax: (763) 476-2613
Contact: Matt Young

Standard Features and Options

PT 20 Indicating Element:

Semi-automatic (push-button) zero	Automatic zero setting mechanism (AZSM)
Initial zero setting mechanism (IZSM)	12 VDC battery operation (rechargeable)
AC/DC power adapter	Multi-point calibration
6 – Multi-channel inputs (for additional weighing elements)	
Integrated tape printer	

AX900 Weighing Element:

Aluminum or steel construction	Four load cells per module
A/D converter or optional analog output	

Load cells: Sensortronics Model 65023A10K-10K (Certificate of Approval Number 3137(a)-89)
or certified equivalent

Optional Model: AX920 (pit installation device)

* This certificate does not include mechanically coupled devices manufactured before November 30, 2001 (S/N 23152370 and lower).

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: August 26, 2002

Mike Cleary, Director

Intercomp Corporation
Portable Axle-Load Weighing Element/Indicating Element
Models: AX900 and PT 20

Application: For use in law enforcement as an axle-load weigher either individually or in pairs with approved and compatible indicating element. The Model PT 20 may be used to n_{max} 1200 with other approved and compatible weighing elements.

Identification: The indicator identification badge can be found on the front panel. The identification badge for each weighing element can be found on the side of each element.

Sealing: The weighing element junction box can be sealed with a security seal threaded through two drilled head screws located on the right side of the device. This prevents access to the adjustment potentiometers inside.

The PT 20 and GP1000/2000 indicating elements can be sealed with a security seal threaded through two drilled head screws located on the right side of each device.

Operation: Axle-load weighing elements may be electronically connected to the Intercomp Model PT 20 or the GP 1000/2000 indicating element (Certificate of Approval Number 4696-97), or a certified and compatible indicating element. The Intercomp Model PT 20 with the multi-channel inputs and printer is the electronic equivalent of the Intercomp Model GP 1000/2000 indicating element. However, the Model PT 20 has a detached A/D converter board that is physically located in the weighing element. Multiple weighing elements may be mechanically coupled together to form more than one pair [refer to asterisk (*) on page 1].

Test Conditions: This Certificate supersedes Certificate of Approval Number 5108-00 and is issued to allow additional pairs of weighing elements to be attached. Six Model AX900 (four 3.5' x 32" and two 5.5' x 32") aluminum weighing elements were evaluated interfaced to an Intercomp Model PT 20 digital indicating element. Several increasing/decreasing and shift load tests were conducted on each weighing element using 24 000 lb of known test weights. Combination tests were conducted by distributing 36 000 lb of known test weights over each pair of weighing elements and then distributing 36 000 lb of known test weights over all six weighing elements. The permanence test was waived based on the previous test conditions.

The previous test conditions are repeated below for reference.

Certificate of Approval Number 5108-00: Two Model AX900 (7' x 32", 30 000 lb x 50 lb) steel weighing elements were evaluated electronically attached to an Intercomp Model PT 20 digital indicating element. Several increasing/decreasing and shift load tests were conducted using 44 000 lb of known test weights. Each weighing element was tested to capacity (30 000 lb). The Model PT 20 indicating element was evaluated for device design, performance, multi-channel input capability, summing capabilities, print format, and compliance with influence factor requirements. The device was also tested over a voltage range of 7.2 vdc to 13.2 vdc. The separate A/D converter module was interfaced to a load cell simulator and the Model PT 20 indicating element, and tested over a temperature range of -10 °C to 40 °C (14 °C to 10 °F). A permanence test was performed using the minimum use criteria requirements and re-tested as described above.

The results of the evaluation and a review of technical information supplied by the manufacturer indicate the devices comply with applicable requirements.

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2002 Edition

Tested By: R. Norman Ingram (CA) 5108(a)-02 G. Castro (CA) and K. Jones (CA) 5108-00