

***National Type Evaluation Program  
Certificate of Conformance  
for Weighing and Measuring Devices***

**For:**

Load Cell  
Double-ended Shear Beam  
Model: 603053-AC 25K  
 $n_{max}$ , Multiple Cells: 10,000  
Capacity: 25,000 lb  
Accuracy Class: III L

**Submitted by:**

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

**Standard Features and Options**

The specific model of load cell covered by this certificate is identified below:

<u>Capacity (lb)</u>	<u><math>V_{min}</math> (lb)</u>	<u>Minimum Dead Load (lb)</u>
25,000	0.75	1,250

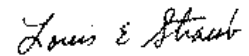
Temperature Range: -10 °C to 40 °C (14 °F to 104 °F)

This device was evaluated under the National Type Evaluation Program (NTEP) and was found to comply with the applicable technical requirements of Handbook 44, "Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: September 12, 2001



Ronald D. Murdock  
Chairman, NCWM, Inc.



Louis E. Straub  
Chairman, National Type Evaluation Program Committee

Issued Date: September 12, 2001

Note: The National Conference on Weights and Measures does not "approve", "recommend", or "endorse" any proprietary product or material, either as a single item or as a class or group. Results shall not be used in advertising or sales promotion to indicate explicit or implicit endorsement of the product or material by the NCWM.

**Intercomp Corporation**  
**Double-ended Shear Beam**  
**Model: 603053-AC 25K**

**Application:** The load cells may be used in III L scales for multiple cell applications consistent with the model designations, number of scale divisions, and parameters specified in this certificate. Load cells of a given accuracy class may be used in applications with lower accuracy class requirements provided the number of scale divisions, the  $v_{\min}$  values, and temperature range are suitable for the application. The manufacturer may market load cells with fewer scale divisions ( $n_{\max}$ ) and with larger  $v_{\min}$  values than those listed on the certificate. However, the load cells must be marked with the appropriate  $n_{\max}$  and  $v_{\min}$  for which the load cell may be used.

**Test Conditions:** This Certificate supersedes Certificate of conformance Number 94-121 and was issued without additional testing to reactivate Certificate of Conformance Number 94-121 without lapse. Changes were also made to update the contact information.

**Certificate of Conformance 94-121:** This device is identical to the device listed on Certificate of Conformance (CC) Number 92-151. This CC is issued without additional testing based on testing performed in conjunction with CC No. 92-151. The test conditions for CC No. 92-151 are listed below for reference.

**Certificate of Conformance Number 92-151:** Two 50,000-lb capacity load cells were tested at NIST using dead weights as the reference standard. The data were analyzed for class III L multiple load cell applications. The cells were tested over a temperature range of -10 to 40 °C. Three tests were run on Certificate Number 92-151 each cell at each temperature. The temperature effect on zero was measured and a time dependence (creep) test was performed. The barometric pressure test was waived due to the insensitivity of the load cell design to changes in barometric pressure.

Representatives from the National Institute of Standards and Technology analyzed the data. The results indicate that the load cells comply with the applicable requirements of NIST Handbook 44.

**Evaluation Criteria Used:** NIST Handbook 44, 1994 Edition

**Tested By:** NIST Force Group, NIST Office of Weights and Measures 94-121

**Information Reviewed By:** L. Sebring (NIST) CC No. 94-121

**Updated By:** Linda Bernetich (NCWM) 94-121A1