

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

**For:**

Indicating Element  
Digital Electronic  
Models: AD-5200, AD-5300  
 $n_{\max}$ : 10 000

Accuracy Class: III/III L

**Submitted by:**

A&D Engineering  
1555 McCanless Dr.  
Milpitas, CA 95035  
Tel: (408) 518-5114  
Fax: (408) 263-0119  
Contact: Jesus Zapien

**Standard Features and Options**

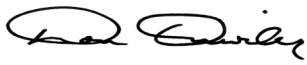
**Models:** AD-5200, AD-5300

Automatic zero setting mechanism (AZSM)  
Semi-automatic zero (push-button)  
Semi-automatic tare (push-button)  
Check weighing and bulk weighing applications  
Light emitting diode (LED) display  
Category 1 event counters and physical seal  
Weigh-in/weigh-out capability (AD-5200 and AD-5300)  
Numeric keypad (AD-5200)  
Battery power supply (AD-5200 and AD-5300)  
RS-484/422 serial communication (AD-5200 and AD-5300)

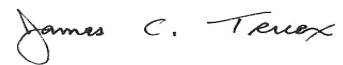
Keyboard tare  
Gross/net weight display  
RS-232 serial communication  
20 mA communication  
Linearity calibration points  
Total and subtotal printing capability  
Pound/kilogram conversion (units key)  
Ticket printing capability  
AC power supply  
Motion detection annunciator

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.



Don Onwiler  
Chairman, NCWM, Inc.



James C. Truex  
Chairman, National Type Evaluation Program Committee  
Issue date: July 25, 2005

**Industrial Data Systems, Inc.**  
**Indicating Element**  
**Models: AD-5200, AD-5300**

**Application:** General purpose indicating element for use with a compatible and certified weighing element.

**Identification:** The required information is on an adhesive self-destructive label located on the back of the indicator. Capacity and division size are located on the front of the indicator.

Identification for the Model Tin Box is located on the opposite side of the mounting surface. Capacity and division size are entered on the front panel marking label installed on the primary weight display by the installer.

**Sealing:** Security is provided through a Category 1 event counter and physical seal for the internal calibration.

The front panel audit trail is accessed by holding the "GROSS/NET" key and then pressing the "UNITS" key. The indicator display will read "CFG XXX". Enter the number 59 and press the "ENTER" key. The indicator will display "A XXX". This is the calibration audit trail number. Press the "ENTER" key and the next display will be the "C XXX". This is the configuration audit trail number. Pressing the "CLEAR" key twice will return the display to the normal weighing mode.

The position of the internal calibration switch may be verified by holding the "CLEAR" key and then pressing the "ENTER" key. The indicator display will read "CFG XXX". Enter the number 60 and press "ENTER". If the indicator displays "LoC ON", the internal switch is turned off and calibration from the front panel is not possible. Should the indicator display "PASS 2", the internal calibration switch is on and front panel calibration is possible with the correct password. Pressing the "CLEAR" key twice will return the display to the weighing mode.

In applications or jurisdictions in which wire seals are appropriate, the internal calibration switch must be in the off position and can be sealed by passing a wire security seal through three drilled head screws located on the rear of the device.

**Test Conditions:** This certificate is issued based upon the following tests and upon information provided by the manufacturer. A Model AD05200 was submitted for evaluation. The emphasis of the evaluation was on device design, operation, marking requirements, and printing capability. Additionally, the indicator was interfaced with a load cell simulator then tested for accuracy through a voltage range of 11 VDC to 28 VDC and a temperature range of -10 °C to 40 °C (14 °F to 104 °F). Previous test conditions are listed below for reference.

**Evaluated By:** D. Parks (CA), G. Castro (CA) and S. Chan (CA)

**Type Evaluation Criteria Used:** NIST Handbook 44, 2002 Edition

**Conclusion:** The results of the evaluations and information provided by the manufacturer indicate the devices comply with applicable requirements

**Information Reviewed By:** S. Patoray (NCWM); L. Bernetich (NCWM)